Ten Years of Northern Research in Canada 1974-1984

Volume 1

Northern Affairs Program

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Dix ans de recherche nordique au Canada 1974-1984

Volume 1

Programme des Affaires du Nord

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Affaires indiennes et du Nord Canada

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PREFACE

The Minister of Indian and Northern Affairs is responsible for fostering, through scientific investigation and technology, knowledge of the Canadian North and the means of dealing with conditions related to its development. In this regard, the Department has, over the years adopted a number of significant initiatives with respect to northern research.

At present, the Office of the Northern Research and Science Advisor is involved in the compilation of a body of knowledge pertaining to the north. Current activities include the preparation of an inventory and review of research and studies relating to Northern Concerns and supported by the Federal Government; it will assist in identifying trends (including possible gaps and overlaps) in research and will support the objective of facilitating a more effective coordination of northern research activities.

Millions of dollars are being invested yearly by the Federal government in research programmes or studies relating to the North, not to mention the huge amounts of money invested by industry and other groups. Increased co-ordination and optimization of resources can only be achieved by the availability and use of a proper and global source of information on Northern research, and by the communication of this information to all interested groups. This is the objective pursued by the publication of this inventory of Northern research projects

(1974-84), which includes research and related activities in the cultural and humanities area, in pure and applied sciences and in the technical area.

I would like to take this opportunity to acknowledge the excellent work undertaken by Mr. Raymond Bergeron, Northern Science Coordinator and Mr. Pierre Guimont in his capacity of Research Analyst with respect to this project. We also want to address this acknowledgement to every person who has contributed to this project and especially to Miss Martine Bousquet, and Miss Marielle Doyon.

Donat Savoie
Northern Research and Science Advisor
Northern Policy and Coordination Branch

PRÉFACE

Fidèle a son mandat de promouvoir la connaissance et le développement du Nord du Canada, à travers la recherche scientifique et la technologie, le ministère des Affaires indiennes et du Nord canadien a pris au cours des années plusieurs initiatives en ce sens.

Dans cette optique, le Bureau du conseiller scientifique sur le Nord a entrepris de rassembler l'information sur les travaux scientifiques nordiques, entre autres en préparant un inventaire de la recherche et des études d'intérêt nordique subventionnées par le gouvernement fédéral; ce dernier permettra d'identifier les domaines mal servis ou les chevauchements comme d'en arriver à une plus grande coordination de cette recherche.

Des millions de dollars sont investis à chaque année par le Fédéral dans des programmes d'études reliés au Nord, sans compter ce qu'y apportent l'industrie et les autres intervenants. La promotion de la science et de la technologie dans le Nord, et en conséquence des développements économiques d'échelles diverses, entraine un besoin croissant de coordination de tous les efforts de recherche ainsi que l'optimisation des ressources qui y sont consenties.

On ne pourra y arriver qu'en disposant d'un outil d'information étendu et efficace sur la recherche nordique, et en diffusant cette information à tous les groupes intéressés. Tel est l'objet du présent

inventaire qui couvre les dix dernières années (1974-84), et comprend des activités de recherche tant dans les domaines de la culture et des sciences humaines, que dans ceux de sciences pures, des sciences appliquées et de la technologie.

En terminant nous voudrions souligner l'excellent travail de Monsieur Raymond Bergeron, Coordonnateur des activités scientifiques, et de Monsieur Pierre Guimont, chercheur-analyste lié à ce projet, ainsi que remercier tous ceux qui y ont contribué, plus spécialement Mesdames Martine Bousquet et Marielle Doyon.

Donat Savoie
Conseiller scientifique sur le Nord
Direction générale de la politique et
de la coordination du Nord

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EXECUTIVE SUMMARY

This inventory gathers numerous references relating to ten years (1974-1984) of research programs and studies relevant to the Canadian North and supported by the Federal Government. It focuses on research projects selected from lists of awards, grants and scholarships of the Federal granting councils and on research contracts processed through the Department of Supply and Services, Canada.

More specifically, 5 324 references have been identified as relevant to North of 60 with a total spending of 157.7 million dollars for the 1974-1984 period. If we add to this several hundred site-specific references concerning the Nouveau-Québec/Labrador area, we arrive at a grand total of 5 718 research references and a total spending of $167.6 million. With respect to amounts of money allocated to northern research, figures included in this report must be considered as estimates.

The selected references have been classified and grouped under 75 headings which all correspond to research themes, but the last one (number 100) includes all references concerning Nouveau-Québec/Labrador.

A preliminary analysis has been made of the main 5 324 references concerning North of 60. First, by identifying for each research theme its total number of references and total spending, we obtain an overview of the level of support provided to each respective field of research. The level of support is an indication of the order of priority assigned to each research theme; it can also indicate that some types of research projects require by their own nature larger investments than others.

The grouping of research themes with associated references and spendings also shows some general trends, namely:

1. The focus of northern research has been more toward the study of the activities of Man on the Environment than towards the study of the Environment itself. Indeed, some 2 717 research projects and $103 million of spending have been addressed to the Man-made Environment, while 2 607 research projects and $55 million of spending have been addressed to the study of the physical-biological-ecological environment. This could also mean that the emphasis has been on applied research rather than pure research.

2. Federal support to research in pure and applied sciences overwhelms federal support given to northern research in areas such as sociology, socioeconomy, arts, culture, education and even medicine. For instance, some 466 references address directly these last issues for a total amount of about $8 million, these figures corresponding to about 9% of the number of references (5 324) and 5% of the money invested ($157.7 million) North of 60 in the last ten years. Adding all references and total spending of the Communication research theme to these figures would raise them to 500 references and about $11 million, giving respectively a little bit more than 9% of all references and 7% of total investments, which is still very low.

3. A few fields of research account for a very large part of the support given to research. For instance, the six leading research themes (including Transport - Remote sensing - Geology - Oil spills - Ice, icebergs - Petroleum and natural gas) total 1 728 references and $79.5 million, this being 33% of the 5 324 references and 50% of the $157.7 million spending for the 1974-1984 period.

4. Most investments have only been localized as belonging to North (36.8%) or non northern based (38.2%), this last group including mainly research done South of 60. Another 7.3% of research investments relevant to North of 60 concerns studies done in the Nouveau-Québec/Labrador area. However, it has been possible to localize 14.8% of research investments within the eight Environmental Studies Revolving Fund (ESRF) - North prescribed regions and a last 2.9% within broader geographical northern regions such as Western, Central North, Central South and Eastern.

5. Examination of these two last groups of localized research investments (14.8% and 2.9%) gives a general idea of the geographical trend of federal support to northern research between 1974-1984. More than half of this support (57%) has been allocated to the Western Arctic (Western), this being easily explicable by major oil and gas activities in the Beaufort Sea and Mackenzie Valley. The second focus has been on the Eastern Arctic (Eastern) (24%). Less effort has been given to the Central North region (12%) and relatively little to the Central South region (7%).

Those are the general trends that we can observe from a preliminary analysis of the information contained in this volume I inventory of research projects relevant to Northern Canada and supported by the Federal government between 1974-1984. Additional information has to be integrated with this inventory in order to give a more global, realistic and accurate picture of the overall effort of the federal government in northern research, to verify the general trends observed in this first preliminary analysis and to go further with more detailed and varied analyses.

INTRODUCTION

This report documents Northern and Northern related studies and research projects supported by the Federal government. It describes the nature of recent and ongoing research, identifies the principal researcher or contractor involved, and provides information about costs and sources of funding[1]. It is directed at a wide readership including government managers and other public servants involved in northern research at the planning, design, decision-making or implementation stages; researchers and managers in universities, industry, consulting firms, private foundations, and Native organizations.

The inventory constitutes an attempt to compile and classify a large bulk of available but dispersed information in a format suitable for subsequent analysis. It focuses on awards, grants and scholarships of the Federal granting councils and on research contracts processed through the Department of Supply and Services Canada. Research conducted or supported "in house" by Federal departments and agencies is not generally part of this first report but is now being presently collected and integrated in the data base. It will therefore be included in another volume of this report.

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[1] This report does not necessarily identify and take into account all sources of funding concerning a specific research project. On the other hand, with respect to each source of funding, the whole sum of money allocated to a research project has been accounted for even when, in some cases, a project did not apply solely to the North. Therefore with respect to amounts of money spent in northern research, figures included in this report must be considered as estimates.

It should be noted that this is not a bibliographical report but it is probable that the studies listed here have generated one or many published reports.

Information contained in this inventory has been integrated in an automated data base and is therefore available by on line searching. This data base will be improved on an on-going basis by the addition of new information on Northern and Northern-related research projects.

SCOPE OF THE STUDY

This document gathers nearly 6 000 references relating to ten years (1974-1984) of research and studies relevant to the Canadian North and supported by the Federal Government. It represents the first attempt to establish an inventory intended to provide an overview of the involvement of the Federal Government in Northern Research.

Of nearly 280 000 projects listed in various annual reports on scholarships, grants and contracts edited by federal departments and agencies, approximately 2% have been selected as being relevant to Northern research.

This inventory includes two broad categories of references, namely:

1. References indicating explicitly that the study's geographical location is north of 60, more specifically in the Yukon Territory or Northwest Territories. This criterion encompasses the area covered by the Environmental Studies Revolving Fund - North[2].

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2 The ESRF established under Section 49 of the Canada Oil and Gas Act (1982) provides for the funding of environmental and social studies directly related to oil and gas exploration on Canada Lands.

2. References related to research undertaken south of 60 or in northern parts of Quebec and Labrador (this covering the area of ESRF-South) but addressing explicitly issues which concern Northern Canada, such as conditions, activities and phenomena typical or common to Northern Canada or to cold regions in general. For instance, references in this category can apply to the Boreal or Subarctic forest biomes, to cold, snow and ice, to blood-sucking insects and their control, to permafrost, and so on.

The latter category also includes references on research addressing some specific issues which, although not exclusively related to the North, are of major concern in the North. Examples include: oil pollution; transport in cold marine waters; animals (such as migratory birds) and plants occurring both in northern and southern Canada; remote sensing with regard to its application to northern phenomena.

References relating to these important issues have been included whenever they clearly seemed to be applicable to the North.

In the case of research projects having a national or even continental scope, it has not been always possible to evaluate the part of these projects and investments that could be allocated to the North. This is especially so in the case of research relating to

communication satellites. When no accurate evaluation or estimate of the Northern content could be made of a research project, this project has been excluded from the inventory.

It is not easy to set geographical limits to this inventory. While it focuses on the Canadian North (meaning North of 60), it also takes into account federal research conducted or funded in the north of Canadian provinces or in laboratories located more southerly, as long as it is relevant to the Canadian North. The first map shows the main area covered by this inventory of northern research projects (Fig. 1).

SOURCES OF INFORMATION

References contained in this report have been selected from the following sources of information

. CANADA COUNCIL:	. Annual report - Supplement
. MEDICAL RESEARCH COUNCIL OF CANADA:	. Report of the President . List of Grants and Awards . Reference List of Health Science Research in Canada
. NATIONAL RESEARCH COUNCIL CANADA:	. Annual Report on Scholarships and Grants in Aid of Research . Directory of Federally Supported Research in Universities
. NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA:	. List of Scholarships and Grants in Aid of Research
. SOCIAL SCIENCE AND HUMANITIES RESEARCH COUNCIL OF CANADA:	. Annual Report
. SUPPLY AND SERVICES CANADA:	. Bulletin: Research and Development

FIG. 1

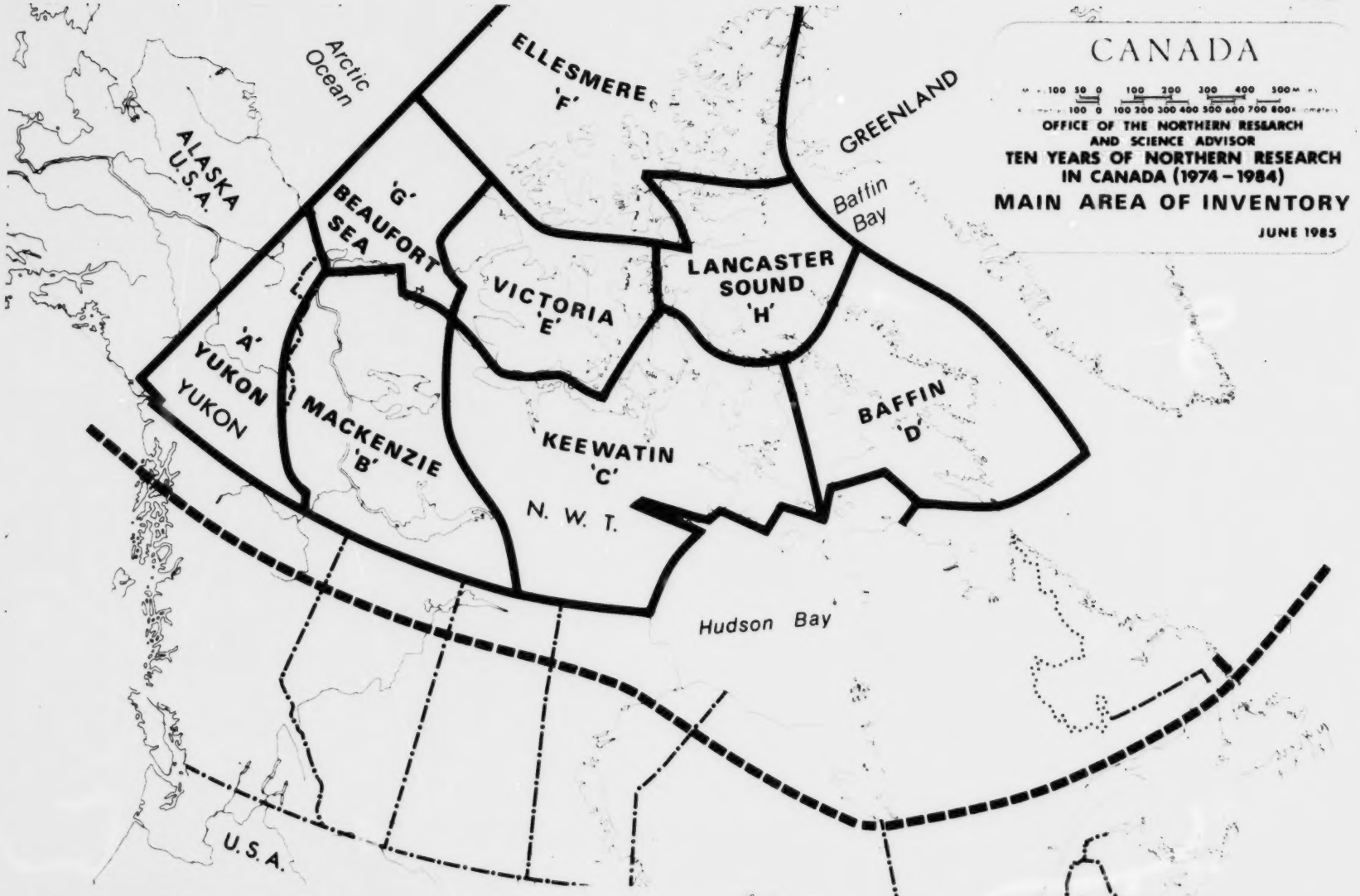

Fig. 1 Main area of inventory. North of 60, continuous lines divide the area according to the prescribed regions of the Environmental Studies Revolving Fund - North. South of 60, the inventory focuses mainly but not only on an area whose southern limit is identified by the broken line.

Adapted from ESRF Prescribed Regions Map

CLASSIFICATION OF REFERENCES

The references have been grouped under seventy five (75) headings or themes in an attempt to emphasize the main areas of knowledge and activities relating to the North; these themes are presented in alphabetical order (Table I). Under each theme, references are also listed by author.

Classification under an extensive number of headings has two major advantages. First it is easier for the researcher and manager to find the information relevant to his own field of interest. Second, it is easier to see what has been the real effort of research in various areas.

Headings or themes used for the classification of references have also been grouped and organized into a structural plan (Table II) which intends to demonstrate the rational links that exist between these themes. All these themes can be found in this plan but in a more rational order and under broad categories identifying the major division of the environment (physical, biological, ecological) and the different levels of human activities. This plan can be useful for the reader who may be looking for information concerning broader areas of research, in facilitating the grouping of closely related headings.

A cross references index has also been established in order to help the reader in his search, by the use of closely related terms.

The last chapter entitled Nouveau-Québec/Labrador gathers all the research that has been identified from this part of Canada. However, many of the research projects undertaken in this area have been considered as relevant to the Northern region, and have therefore been included under the headings of the general inventory.

TABLE I

RESEARCH THEMES LISTING

1. Acidification, acid precipitation
2. Agriculture, animal husbandry
3. Archeology, prehistory
74. Bloodsucking insects (study and control)
4. Circumpolar issues
5. Climatology, meteorology, effects of climatic phenomena
6. Coastal zones and shores
73. Cold acclimation
7. Communications
8. Community development
9. Conservation, regulation
10. Cooperatives, small businesses, supply services, public services
11. Culture, arts, languages, religion - evolution
12. Demography
14. Ecology, ecological inventories, environment description
13. Economy and economic development
15. Education
16. Employment and training
17. Energy (general)
18. Engineering, construction and materials, architecture
19. Environment, pollution (general) impact assessment, techniques
20. Estuarian ecosystems
21. Fauna: birds
22. Fauna: fishes
26. Fauna: general (vertebrates)
23. Fauna: marine mammals
25. Fauna: semi-aquatic and freshwater mammals
24. Fauna: terrestrial
27. Fisheries
29. Forest exploitation (all issues)
30. Forest fires, tundra fires
28. Forests
31. Freshwater ecosystems
32. Geography, toponymy, regional studies
33. Geology, geophysics, physics and related issues
34. Geomorphology and Quaternary
35. Glaciology
36. Government (organizations, policies...)
37. History
38. Hydroelectricity
39. Hydrology, hydrography, hydraulics, physico-chemical limnology
40. Ice, icebergs, ice scours
41. Invertebrates, micro-organisms (benthos, plankton...)
42. Justice, law, folk law, constitutional law
43. Land claims, agreements
44. Land use and management, land use planning, regional development
45. Marine ecosystems
46. Medicine, human physiology, public health
47. Mercury
48. Minerals (exploration, development, technology, wastes, impacts)
49. Monitoring (general)
50. Native people and organizations
51. Native wildlife harvesting
52. Northern research, methodologies, bibliographies
53. Oceanography (physical)
54. Oil spills (all issues)
55. Parks, biosphere and ecological reserves
57. Permafrost, soils, periglacial features
56. Petroleum and natural gas (exploration, development, technology, associated impacts)
58. Remote sensing, computer systems
59. Renewable resources (general)
61. Site rehabilitation, mitigation
62. Snow
63. Social, socioeconomic issues - evolution
64. Sovereignty, defense, international policies
75. Terrain disturbance
65. Terrestrial ecosystems
66. Tourism, sport hunting and fishing, leisure activities, cultural services
67. Transport, transportation systems, ice breakers and technology
68. Underwater noise, industrial noise
69. Vegetation, botany, flora
70. Waste and waste water (disposal and treatment)
71. Wild animal husbandry
72. Other subjects
100. Nouveau-Québec/Labrador

TABLE II

RESEARCH THEMES STRUCTURE PLAN

I. THE PHYSICAL ENVIRONMENT

A. Climatology, meteorology, effects of climatic phenomena (5)
B. Geology, geophysics, physics and related issues (33)
C. Geomorphology and Quaternary (34)
. Coastal zones and shores (6)
D. Permafrost, soils, periglacial features (57)
E. Snow (62)
F. Ice, icebergs, ice scours (40)
G. Glaciology (35)
H. Hydrology, hydrography, hydraulics, physico-chemical limnology (39)
I. Oceanography (physical) (53)

II. THE BIOLOGICAL ENVIRONMENT

A. Vegetation, botany, flora (69)
B. Forests (28)
. Forest fires, tundra fires (30)
C. Fauna: general (vertebrates) (26)
D. Fauna: fishes (22)
E. Fauna: birds (21)
F. Fauna: marine mammals (23)
G. Fauna: semi-aquatic and freshwater mammals (25)
H. Fauna: terrestrial (24)
I. Invertebrates, micro-organisms (benthos, plankton...) (41)

III. THE ECOLOGICAL ENVIRONMENT

A. Geography, toponymy, regional studies (32)
B. Ecology, ecological inventories, environment description (14)
C. Freshwater ecosystems (31)
D. Estuarian ecosystems (20)
E. Marine ecosystems (45)
F. Terrestrial ecosystems (65)

IV. THE MAN-MADE ENVIRONMENT

A. Archeology, prehistory (3)
B. History (37)
C. Native people and organizations (50)
D. Sociocultural aspects
. Culture, arts, languages, religion - evolution (11)
E. Social, socioeconomic issues - evolution (63)
. Community development (8)
F. Demography (12)
G. Economy and economic development (13)

1. Primary sector

a. Harvesting activities (gathering, hunting, fishing, trapping)
. Native wildlife harvesting (51)
b. Agriculture, animal husbandry (2)
. Wild animal husbandry (71)

c. Fisheries (27)
d. Energy (general) (17)
e. Hydroelectricity (38)
f. Mining
   . Minerals (exploration, development, technology, wastes, impacts) (48)
   . Petroleum and natural gas (exploration, development, technology, associated impacts) (56)
g. Forest exploitation (all issues) (29)
h. Renewable resources (general) (59)

2. Secondary and Tertiary sectors

a. Cooperatives, small businesses, supply services, public services (10)
b. Transport, transportation systems, ice breakers and technology (67)
c. Communications (7)
d. Engineering, construction and materials, architecture (18)
e. Pollution control, waste management
   . Environment, pollution (general), impact assessment, techniques (19)
   . Acidification, acid precipitation (1)
   . Oil spills (all issues) (54)
   . Terrain disturbance (75)
   . Waste and waste water (disposal and treatment) (70)
   . Underwater noise, industrial noise (68)
   . Site rehabilitation, mitigation (61)
f. Medicine, human physiology, public health (46)
   . Cold acclimation (73)
   . Bloodsucking insects (study and control) (74)
   . Mercury (47)
g. Education (15)
h. Employment and training (16)
i. Northern research, methodologies, bibliographies (52)
   . Remote sensing, computer systems (58)
j. Tourism, sport hunting and fishing, leisure activities, cultural services (66)

3. Quaternary sector

a. Government (organizations, policies...) (36)
b. Justice, law, folk law, constitutional law (42)
   . Land claims, agreements (43)
c. Land use and management, land use planning, regional development (44)
d. Monitoring (general) (49)
e. Conservation, regulation (9)
   . Parks, biosphere and ecological reserves (55)
f. Sovereignty, defense, international policies (64)
   . Circumpolar issues (4)

Other Subjects (72)
Nouveau-Québec/Labrador (100)

RESULTS AND PRELIMINARY ANALYSIS[3]

As mentioned previously, references regarding northern research projects have been selected through the inventory and review of various information sources and grouped under the specific research theme to which they belong.

. Table III

Table III summarizes the information on number of references and spending. Section a concerns North of 60 and is the object of the following preliminary analysis. A total of 5 324 references have been selected as relevant to North of 60 with a total spending of $157.7 million for the 1974-1984 period. Of these references, a total of 472 references concern Nouveau-Québec/Labrador for an amount of almost $12 million. More than half of the references relating to Nouveau-Québec/Labrador have then been considered to be relevant to North of 60, the others being too specific or too site-specific. However, references concerning Nouveau-Québec/Labrador have also been gathered under a separate heading (Theme

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3 The following results and analysis apply to the information contained in this report. Although this inventory constitutes a very significant part of the overall information relating to northern research and costs, there are some limitations to the conclusions that can be drawn from it.

TABLE III

TOTAL SPENDING AND NUMBER OF REFERENCES

a) NORTH OF 60 (with relevant references from Nouveau-Québec/ Labrador)

Total spending: $157.7 million

Number of references: 5 324

b) NOUVEAU-QUÉBEC/LABRADOR

Total spending: $ 21.4 million

Number of references: 866

c) GRAND TOTAL (North, including all references and spending of Nouveau-Québec/Labrador)

Total spending: $167.6 million

Number of references: 5 718

100, Nouveau-Québec/Labrador); this is shown in section b of Table III. A total of 866 references have been selected as relevant to Nouveau-Québec/Labrador with a total spending of $21.4 million for the 1974-1984 period. No analysis is made of Section b. Section c indicates the grand total of references and spending if we add all references and spending relevant to the North including those specific to Nouveau-Québec/Labrador.

Table IV

This table presents the listing of research themes with, in each case, the total number of references and the total amount of dollars invested, in a decreasing order of importance in terms of dollars. Therefore, Table IV provides information on the level of federal support to each of the listed field of research. The level of support is an indication of the priority assigned to each of these fields of research. But it can also indicate that some research projects, by their own nature, require larger investments than the others, this being best shown by the mean (see Transport, Native wildlife harvesting, Communications, etc.).

TABLE IV

LIST OF RESEARCH THEMES WITH NUMBER OF REFERENCES AND DOLLARS INVESTED

Themes	Number of References	Total ($)	Mean ($)
67 Transport...	177	20 719 396	117 059
58 Remote sensing...	198	18 300 284	92 425
33 Geology...	560	13 974 850	24 955
54 Oil spills...	318	11 499 349	36 162
40 Ice, icebergs...	284	8 565 815	30 161
52 Northern research...	261	6 807 822	26 084
56 Petroleum, and natural gas...	191	6 399 653	33 506
18 Engineering...	256	5 767 360	22 529
57 Permafrost...	240	4 248 830	17 703
34 Geomorphology...	189	3 401 345	7 997
5 Climatology...	114	3 276 614	28 742
7 Communications	34	3 233 635	95 107
73 Cold acclimation	168	3 014 839	17 945
19 Environment...	96	2 940 046	30 625
41 Invertebrates...	148	2 834 716	19 153
48 Minerals...	84	2 742 552	32 649
53 Oceanography (physical)	117	2 649 331	22 644
69 Vegetation...	143	2 611 840	18 264
46 Medicine...	62	2 509 088	40 469
74 Bloodsucking insects...	139	2 469 528	17 766
39 Hydrology...	98	2 405 623	24 547
17 Energy (general)	59	2 376 213	40 275
11 Culture, arts...	223	1 973 213	8 848
21 Fauna: birds	110	1 872 207	17 020
2 Agriculture...	16	1 407 528	87 971
26 Fauna: general (vertebrates)	74	1 274 381	17 221
70 Waste and waste water...	62	1 165 885	18 804
3 Archeology, prehistory	39	1 108 345	28 419
35 Glaciology	79	1 049 683	13 287
62 Snow	79	1 049 250	13 282
14 Ecology...	68	960 715	14 128
22 Fauna: fishes	79	951 721	12 047
23 Fauna: marine mammals	58	880 104	15 174
44 Land use...	19	873 340	45 965
24 Fauna: terrestrial	66	792 918	12 014

Themes		Number of References	Total ($)	Mean ($)
1	Acidification...	27	726 414	26 904
51	Native wildlife harvesting	6	691 304	115 217
49	Monitoring (general)	13	652 502	50 192
6	Coastal zones and shores	25	557 674	22 307
38	Hydroelectricity	9	546 901	60 767
31	Freshwater ecosystems	11	541 939	49 267
75	Terrain disturbance	7	466 148	66 593
9	Conservation, regulation	10	439 711	43 971
37	History	50	400 464	8 009
68	Underwater noise...	13	385 247	29 634
30	Forest fires...	15	383 530	25 569
27	Fisheries	15	380 008	25 334
61	Site rehabilitation...	10	372 321	37 232
45	Marine ecosystems	22	303 550	13 798
47	Mercury	13	260 422	20 032
28	Forests	18	259 966	14 443
36	Government...	12	221 296	18 441
10	Cooperatives...	11	201 225	18 293
32	Geography...	8	200 428	20 053
16	Employment, and training	14	189 261	13 519
29	Forest exploitation...	3	171 577	57 192
12	Demography	15	151 381	10 092
42	Justice, law...	8	149 800	18 725
15	Education	12	138 401	11 533
43	Land claims, agreements	12	128 625	10 719
50	Native people...	14	115 830	8 274
63	Social, socioeconomic issues...	12	110 492	9 208
64	Sovereignty...	6	102 830	17 138
13	Economy...	6	102 337	17 056
59	Renewable resources...	9	87 176	9 686
66	Tourism, sport hunting...	3	44 985	14 995
65	Terrestrial ecosystems	1	35 200	35 200
4	Circumpolar issues	3	20 175	6 725
55	Parks, biosphere ...	2	5 050	2 525
25	Fauna: semi-aquatic...	1	2 500	2 500
71	Wild animal husbandry	0	0	0
20	Estuarian ecosystems	0	0	0
8	Community development	0	0	0

Table V

Table V uses the same type of results (number of references, amounts of money) but integrates them to the research themes structure plan. The grouping of themes with associated references and spending facilitates comparison between broad areas of research such as the physical sciences area, the biological sciences areas, the ecological area and the man-made area.

Looking at Table V, we can see that large sums of money have been invested in research focusing on past or present human activities, indeed more than $102 million for 2 717 research projects. On the other hand, some $55 million and 2 607 research projects have been addressed to the physical-biological-ecological environment. This may indicate that, the tendency of northern research has been more towards the study of the activities of man on the Environment than towards study of the Environment itself and probably, as a corollary, more towards applied research than towards pure research. Table V also indicates that federal support for research in pure or applied sciences (physical, biological, ecological, engineering, remote sensing, transport, etc.) overwhelms federal support given to northern research in areas such as sociology, socioeconomy, arts, culture, education and even medicine. Indeed, some 466 references address these last

issues for a total amount of $7.8 million[4], these figures corresponding to 8.8% of the total number of references (5 324) and 4.9% of the total spending ($157.7 million) in northern research projects. Adding all references and total spending of the Communication research theme to these figures would raise them to 500 references and about $11 million, giving respectively 9.4% of all references and 7% of total investments, which is still very low.

. Table VI

Only a few fields of research account for a very large part of the investments made in research. This is obvious when looking at Table VI which shows that six leading research themes monopolize a total of 1 728 references and $79.5 million, this being 33% of the total number of references and 50% of the total spending.

. Table VII

References concerning research projects relevant to the North[5] have been grouped under the following geographical areas:

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4 Sum of themes 3, 8, 11, 12, 13, 15, 16, 37, 46, 47, 50, 51, 63.

5 When a project was concerning more than one geographical area no attempt has been made to break down per area the amount of money allocated to this project.

TABLE V

RESEARCH THEMES STRUCTURE PLAN WITH NUMBER OF REFERENCES AND DOLLARS INVESTED

Number of references	Total $	
		I. THE PHYSICAL ENVIRONMENT: (1 785) 41 179 015 $ (Moy: 23 069 $)
114	3 276 614	A. Climatology, meteorology, effects of climatic phenomena (5)
560	13 974 850	B. Geology, geophysics, physics and related issues (33)
189	3 401 345	C. Geomorphology and Quaternary (34)
25	557 674	. Coastal zones and shores (6)
240	4 248 830	D. Permafrost, soils, periglacial features (57)
79	1 049 250	E. Snow (62)
284	8 565 815	F. Ice, icebergs, ice scours (40)
79	1 049 683	G. Glaciology (35)
98	2 405 623	H. Hydrology, hydrography, hydraulics, physico-chemical limnology (39)
117	2 649 331	I. Oceanography (physical) (53)
		II. THE BIOLOGICAL ENVIRONMENT: (712) 11 863 883 $ (Moy: 16 663 $)
143	2 611 840	A. Vegetation, botany, flora (69)
18	259 966	B. Forests (28)
15	383 530	. Forest fires, tundra fires (30)
74	1 274 381	C. Fauna: (general), (vertebrates) (26)
79	951 721	D. Fauna: fishes (22)
110	1 872 207	E. Fauna: birds (21)
58	880 104	F. Fauna: marine mammals (23)
1	2 500	G. Fauna: semi-aquatic and freshwater mammals (25)
66	792 918	H. Fauna: terrestrial (24)
148	2 834 716	I. Invertebrates, micro-organisms (benthos, plankton...) (41)
		III. THE ECOLOGICAL ENVIRONMENT: (110) 2 041 832 $ (Moy: 18 562 $)
8	200 428	A. Geography, toponymy, regional studies (32)
68	960 715	B. Ecology, ecological inventories, environment description (14)
11	541 939	C. Freshwater ecosystems (31)
0	0	D. Estuarian ecosystems (20)
22	303 550	E. Marine ecosystems (45)
1	35 200	F. Terrestrial ecosystems (65)

Number of References	Total $		
		IV. THE MAN-MADE ENVIRONMENT: (2 717) 102 569 959 $ (Moy: 37 751 $)	
39	1 108 345	A. Archeology,prehistory (3)	
50	400 464	B. History (37)	
14	115 830	C. Native people and organizations (50)	
		D. Sociocultural aspects	
223	1 973 213	. Culture, arts, languages, religion - evolution (11)	(359)
12	110 492	E. Social, socioeconomic issues - evolution (63)	3 962 062 $
0	0	. Community development (8)	(Moy: 12 034 $)
15	151 381	F. Demography (12)	
6	102 337	G. Economy and economic development (13)	
		1. Primary sector: (392) 14 802 912 $ (Moy: 37 763 $)	
		a. Harvesting activities (gathering, hunting, fishing, trapping)	(6)
6	691 304	. Native wildlife harvesting (51)	691 304 $ (Moy: 115 217 $)
16	1 407 528	b. Agriculture, animal husbandry (2)	
0	0	. Wild animal husbandry (71)	
15	380 008	c. Fisheries (27)	
59	2 376 213	d. Energy (general) (17)	
9	546 901	e. Hydroelectricity (38)	
		f. Mining	
84	2 742 552	. Minerals (exploration, development, technology, wastes, impacts) (48)	
191	6 399 653	. Petroleum and natural gas (exploration, development, technology, associated impacts) (56)	
3	171 577	g. Forest exploitation (all issues) (29)	
9	87 176	h. Renewable resources (general) (59)	

Number of References	Total $		
		2. Secondary and Tertiary sectors: (1 881) 81 211 656 $ (Moy: 43 175 $)	
11	201 225	a. Cooperatives, small businesses, supply services, public services (10)	478
177	20 719 396	b. Transport, transportation systems, ice breakers and technology (67)	29 921 616 $ (Moy: 62 598 $)
34	3 233 635	c. Communications (7)	
256	5 767 360	d. Engineering, construction and materials, architecture (18)	
		e. Pollution control, waste management	
96	2 940 046	. Environment, pollution (general), impact assessment, techniques (19)	
27	726 414	. Acidification, acid precipitation (1)	(533)
318	11 499 349	. Oil spills (all issues) (54)	(17 555 410 $
7	466 148	. Terrain disturbance (75)	(Moy: 32 937 $)
62	1 165 885	. Waste and waste water (disposal and treatment) (70)	
13	385 247	. Underwater noise, industrial noise (68)	
10	372 321	. Site rehabilitation, mitigation (61)	
62	2 509 088	f. Medicine, human physiology, public health (46)	
168	3 014 839	. Cold acclimation (73)	(382)
139	2 469 528	. Bloodsucking insects (study and control) (74)	8 253 877 $
13	260 422	. Mercury (47)	(Moy: 21 607 $)
12	138 401	g. Education (15)	
14	189 261	h. Employment and training (16)	
261	6 807 822	i. Northern research, methodologies, bibliographies (52)	(488)
198	18 300 284	. Remote sensing, computer systems (58)	25 480 753 $
3	44 985	j. Tourism, sport hunting and fishing, leisure activities, cultural services (66)	(Moy: 52 215 $)

Number of References	Total $	
		3. Quaternary sector: (85) 2 593 329 $ (Moy: 30 510 $)
12	221 296	a. Government (organizations, policies...) (36)
8	149 800	b. Justice, law, folk law, constitutional law (42)
12	128 625	. Land claims, agreements (43)
19	873 340	c. Land use and management, land use planning, regional development (44)
13	652 502	d. Monitoring (general) (49)
10	439 711	e. Conservation, regulation (9)
2	5 050	. Parks, biosphere and ecological reserves (55)
6	102 830	f. Sovereignty, defense, international policies (64)
3	20 175	. Circumpolar issues (4)
0	0	Other Subjects: (72)
866	21 429 975	Nouveau-Québec/Labrador (100): (866) 21 429 975 $ (Moy: 24 746 $)

TABLE VI

MAJOR INVESTMENTS

Themes	Total (million $)	Number of references	Mean ($)
Theme 67, Transport...	20.7	177	117 059
Theme 58, Remote sensing...	18.3	198	92 425
Theme 33, Geology...	14.0	560	24 955
Theme 54, Oil spills...	11.5	318	36 162
Theme 40, Ice, icebergs...	8.6	284	30 161
Theme 56, Petroleum and natural gas...	6.4*	191	33 506
Total (6 themes)	79.5	1 728	
% of total investment and references	50%	33%	

* Theme 56 has been selected as the sixth leading theme instead of theme 52 (Northern Research...) this last theme being too general and broad in scope.

- References identified as North or Arctic have been grouped under North (36.8%).

- References localized within broad geographical northern regions have been grouped under Western, Central North, Central South and Eastern (2.9%).

- References indicating a specific geographical location have been grouped according to the eight prescribed regions of the Environmental Studies Revolving Fund - North (14.8%).

- References for Nouveau-Québec/Labrador have been classified under Nouveau-Québec/Labrador (7.3%).

- References concerning projects conducted in the South or not identified by a geographical location have been classified under "Without Northern location" (38.2%).

Section a of Table VII shows the distribution of research investments with respect to these five general geographical areas.

Section b applies to references which has been grouped under ESRF-North regions and shows how the $23.4 million of spending associated with those references is distributed between these regions (see also Fig. 2).

References that have been localized under broad geographical northern regions totalize about $4.6 million. Section c of Table VII shows the more specific distribution of this amount of money between the four regions of Western, Central South, Central North and Eastern. (see also Fig. 3).

Section d is the sum of section b and c. References and investments relating to ESRF-North regions ($23.4 million) have been added to references and investments already grouped under broad geographical regions ($4.6 million). Almost $28 million of investments in research can be fairly well localized in the North of 60 area, this representing about 17.7% of the $157.7 million of northern research investments. (see also Fig. 4). Besides, about $11.5 million can also be localized in the Nouveau-Québec/Labrador area, this raising the level of localization to about 25% and finally up to 61.8% if all northern locations are taken into account.

Looking back at section d of Table VII and at Fig. 4, we can see, from this sample, what has been the geographical trend of federal support in research between 1974-1984. More than half of this support has been allocated to the Western Arctic (Western), this being easily explicable by major oil and gas activities in the Beaufort Sea and the Mackenzie Valley. The second focus has been on the Eastern Arctic (Eastern) because primarily of the Lancaster

Sound Study, and the Baffin Island Oil Spill (BIOS) and Baffin Region Inuit Association (BRIA) projects, etc. Less effort has been given to the Central North region and relatively little to the Central South region.

These are some of the general trends that we can observe from a preliminary analysis of the information contained in this first inventory of northern research projects supported by the Federal government between 1974-1984.

At this point, it does not seem advisable to proceed with a more thorough analysis of this information mainly because all the information has not been collected yet. To try to be more precise and categorical at the present time could be misleading.

Additional remarks

More information will have to be integrated to this inventory in order to give a more complete picture of the overall effort of the federal government in northern research. Additional information will not only contribute to increase the number of references and the amounts of money invested in research but it could also bring some changes in the order of importance (with regard to the federal effort in research) of the numerous field of research listed and analysed in this inventory.

However, this inventory can be considered as a good indication of the contribution of the Federal government in northern research for the last ten-year period. The objective of its analysis has been to identify the major and general trends observed from this sample for this period of time.

TABLE VII

GENERAL LOCALIZATION OF RESEARCH INVESTMENTS

a) GENERAL LOCALIZATION

Localization	Investments (million $)	%
North	58.1	36.8
Broad geographical regions	4.6	2.9
ESRF-North regions	23.4	14.8
Nouveau-Québec/Labrador	11.5	7.3
Without Northern location	60.1	38.2
Total	157.7	100

b) ESRF-NORTH REGIONS (See also Fig. 2)

Regions	Investments $	%
YUKON (A)	6 757 925	29
MACKENZIE (B)	2 380 035	10
KEEWATIN (C)	1 885 545	8
BAFFIN (D)	928 626	4
VICTORIA (E)	524 759	2
ELLESMERE (F)	2 252 183	10
BEAUFORT SEA (G)	5 973 601	26
LANCASTER SOUND (H)	2 659 046	11
TOTAL (REGIONS)	23 361 720	100

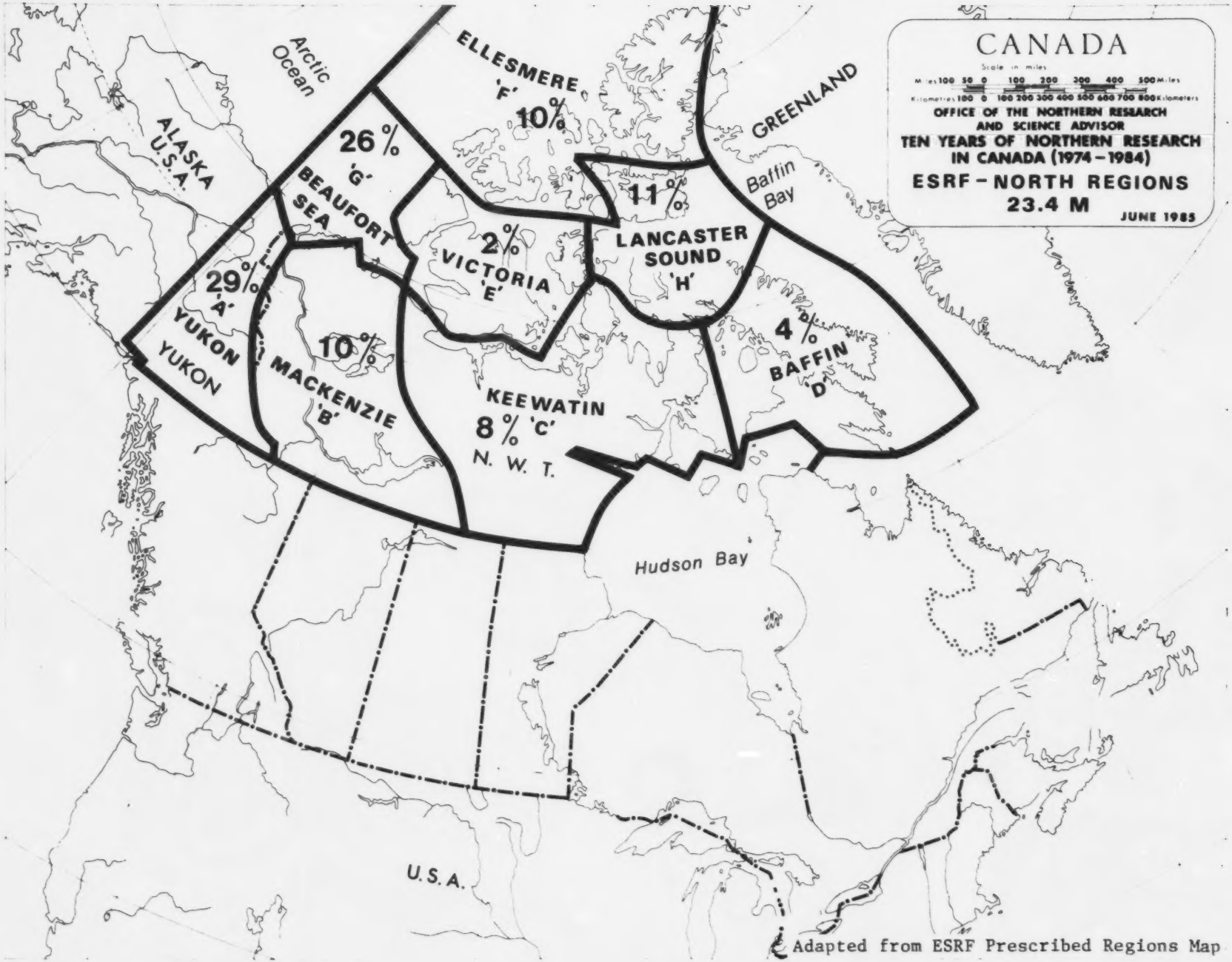
c) BROAD GEOGRAPHICAL REGIONS (See also Fig. 3)

Geographical regions	Investments $	%
WESTERN	848 583	19
CENTRAL SOUTH	67 925	1
EASTERN	3 170 343	69
CENTRAL NORTH	486 234	11
TOTAL (REGIONS)	4 573 085	100

d) BROAD GEOGRAPHICAL REGIONS + ESRF-NORTH REGIONS (b + c) (See also Fig. 4)

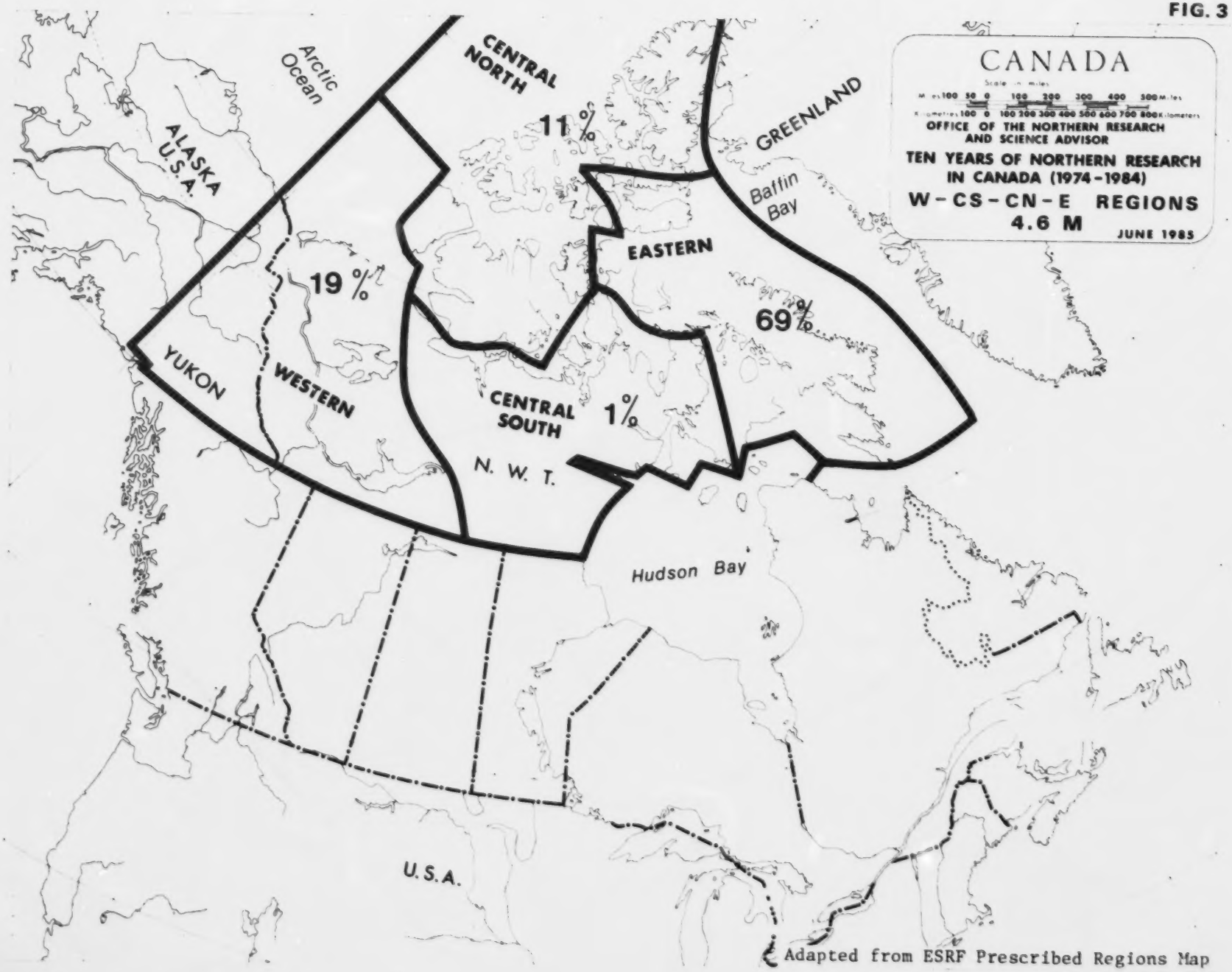
Areas	Investments $	%
WESTERN (+ YUKON + MACKENZIE + BEAUFORT SEA):	15 960 144	57
EASTERN (+ LANCASTER SOUND + BAFFIN):	6 758 015	24
CENTRAL SOUTH (+ KEEWATIN):	1 953 470	7
CENTRAL NORTH (+ VICTORIA + ELLESMERE):	3 263 176	12
TOTAL (SUM OF REGIONS)	27 934 805	100

FIG. 2



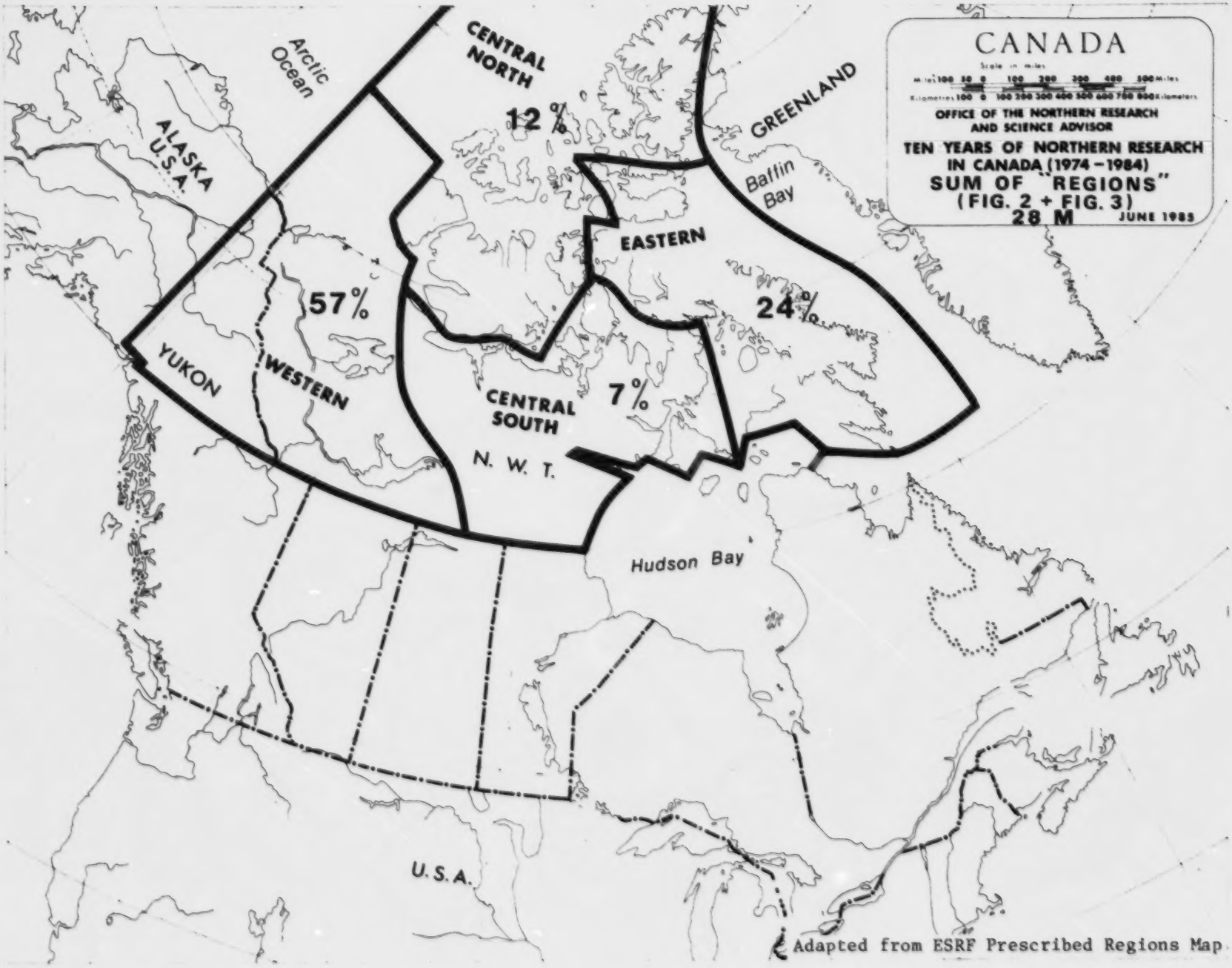
Adapted from ESRF Prescribed Regions Map

FIG. 3



Adapted from ESRF Prescribed Regions Map

FIG. 4



Adapted from ESRF Prescribed Regions Map

RÉSUMÉ

Le présent inventaire regroupe un grand nombre de références concernant le Nord canadien et portant sur les études et programmes de recherche soutenus par le gouvernement fédéral de 1974 à 1984. Il s'agit essentiellement de projets de recherche sélectionnés parmi ceux auquels des prix, subventions et bourses ont été attribués par les conseils fédéraux de subventions ou encore qui ont donné lieu a des contrats octroyés par Approvisionnements et Services Canada.

Quelque 5 324 références ont été ainsi identifiées comme s'appliquant au Nord du 60°, pour un total de 157,7 millions de dollars. Si nous ajoutons à cela quelques centaines d'autres plus spécifiques au secteur Nouveau-Québec/Labrador, on atteint un grand total de 5 718 références et une dépense de 167,6 millions. Notons que les montants d'investissements dans la recherche nordique présentés dans ce rapport doivent être considérés comme des estimations.

Les références choisies ont été classées et groupées sous 75 rubriques correspondant à des thèmes de recherche à l'exception du thème 100 qui rassemble toutes les études concernant le Nouveau-Québec/Labrador.

Une analyse préliminaire a été faite de l'ensemble de ces 5 324 références s'appliquant au Nord du 60°. En accolant à chaque thème de recherche le total des références et des dépenses qui s'y rapportent, on peut voir en premier lieu quelle est l'importance

relative du soutien accordé à chacun d'eux, ensuite quel en est l'ordre de priorité; cependant il faut savoir que certains projets de recherche, de par leur nature même, requièrent des investissements plus élevés que d'autres.

Le regroupement des thèmes de recherche, des références et des dépenses respectives permet également de dégager certaines tendances générales, soit entre autres:

1. La recherche nordique a été concentrée davantage sur les activités de l'homme et ses effets sur l'environnement que sur l'étude de l'environnement lui-même. En effet, quelque 2 717 projets de recherche et des dépenses de 103 millions concernent le milieu anthropique alors que 2 607 projets et 55 millions se rapportent aux milieux physique, biologique et écologique; ce qui pourrait indiquer que l'emphase a été mise sur la recherche appliquée plutôt que sur la recherche pure.

2. Le soutien du gouvernement fédéral à la recherche nordique dans le domaine des sciences pures et appliquées l'emporte très largement sur celui accordé à la recherche nordique dans les secteurs de la sociologie et de la socio-économie, des arts, de la culture, de l'éducation et même de la santé. A titre indicatif, environ 466 références s'appliquent à ces derniers pour un montant total de près de 8 millions, soit environ 9% du

nombre total de références (5 324) et 5% des sommes dépensées (157,7 millions) dans les projets de recherche nordique ces dix dernières années. Si on leur ajoute par exemple toutes les références et dépenses reliées au thème Communications (vocation sociale, éducative, etc.) on atteint 500 références et environ 11 millions soit un peu plus de 9% du nombre total de références et 7% des sommes dépensées, ce qui est encore relativement très faible.

3. Un très petit nombre de champs de recherche canalisent une très large part du soutien fédéral. Ainsi, les six thèmes en tête du peloton totalisent 1 728 références et des investissements de 79,5 millions, soit 33% du nombre total de références et 50% de l'ensemble des dépenses pour la période 1974-1984.

4. Environ le tiers des investissements n'ont pu être localisés que sous la rubrique Nord (36,8%) tandis qu'un autre tiers demeure sans localisation nordique (38,2%), et comprend surtout les recherches faites au Sud du 60°. Pour le reste, 7,3% des investissements concerne des études réalisées dans le secteur Nouveau-Québec/Labrador, 14,8% a pu être localisé à l'intérieur des régions du Fonds renouvelable pour l'étude de l'environnement (FREE) - Nord, et finalement 2,9% dans de grandes régions géographiques comme l'Ouest, le Centre-Nord, le Centre-Sud et l'Est.

5. L'examen de ces deux derniers groupes (14,8% et 2,9%) illustre croyons-nous la tendance de la distribution géographique du soutien fédéral à la recherche de 1974 à 1984. Ainsi, plus de la moitié des sommes ont été allouées à l'Arctique de l'Ouest (Ouest) (57%), ceci s'expliquant par les importantes activités pétrolières et gazières dans la mer de Beaufort et la vallée du Mackenzie. La seconde cible a été l'Arctique de l'Est (Est) (24%). Moins d'effort a été consacré à la région Centre-Nord (12%) et relativement peu à la région Centre-Sud (7%).

Ce sont là quelques idées générales qui ressortent de l'analyse préliminaire de l'information contenue dans ce premier volume de l'inventaire des projets de recherche nordique soutenus par le gouvernement fédéral entre 1974 et 1984. D'autres données devront être intégrées à cet inventaire afin de fournir une image encore plus globale, réaliste et précise de l'ensemble du soutien fédéral à la recherche nordique, et de procéder à des analyses plus élaborées qui devraient non seulement confirmer les tendances générales observées ici mais aussi permettre d'en faire ressortir d'autres.

INTRODUCTION

Le présent rapport d'inventaire sur la recherche nordique, subventionnée par le gouvernement fédéral, vise à rendre accessible à tout intéressé la nature de cette recherche, ses principaux acteurs, ceux qui la supportent ainsi que les coûts impliqués[1].

Il devrait dès lors rejoindre un large public dont les fonctionnaires de l'État reliés à la gestion de la recherche nordique tant au niveau de sa définition, que de l'orientation et de la mise en application des programmes qui s'y rapportent. Il intéressera également les chercheurs et gestionnaires des universités, de l'industrie, des fondations privées et des firmes de consultants, comme ceux rattachés aux organisations autochtones.

Il ne constitue pas toutefois une recherche bibliographique proprement dite mais il est probable que la grande majorité des études qui y sont répertoriées ont donné lieu à une ou plusieurs publications.

On verra donc ici un premier effort d'identifier, de rassembler et de classer une importante masse d'informations qui, bien que déjà facilement accessible, demeurait quant à son aspect nordique largement dipersée; on en présente la synthèse dans un format qui permet des

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[1] L'inventaire n'indique pas nécessairement toutes les sources de subventions concernant un projet spécifique. D'autre part, les sommes retenues pour chacun des projets l'ont été globalement, même si un projet ne s'appliquait pas uniquement au Nord. Les chiffres présentés ici et reliés aux investissements ne sont dès lors que des estimations.

analyses variées. Pour cette première édition ont été dépouillés les rapports concernant les bourses et subventions de recherche d'organisme fédéraux ainsi que les contrats de recherche administrés par Approvisionnement et Services Canada. Dans un autre volume, déjà en marche, on identifiera les recherches menées ou supportées à l'intérieur des ministères et des agences fédérales, et qui ne figurent pas ici.

Les présentes données se retrouvent également dans une banque informatisée sur la recherche nordique, qui sera tenue à jour.

PORTÉE DE LA RECHERCHE

On trouvera dans ce rapport près de 6 000 références pertinentes au Nord canadien, qui correspondent à des recherches subventionnées par le gouvernement fédéral au cours des 10 dernières années (1974-1984). C'est une première tentative visant a présenter une vue globale de l'implication du gouvernement fédéral dans la recherche nordique.

Le dépouillement de près de 280 000 projets tirés de rapports annuels de subventions et de contrats, de conseils et d'organismes fédéraux, a permis de rassembler sous un qualificatif nordique un peu plus de 2% de toute l'activité de recherche d'une décennie.

Les études ainsi regroupées correspondent à 2 grandes catégories de référence:

1. Celles dont l'objet est relié géographiquement au Nord, plus spécifiquement au nord du 60° degré de latitude; elles couvrent donc l'ensemble des Territoires du Nord-Ouest et du Yukon ou les lieux d'application du Fonds renouvelable pour l'étude de l'environnement - Nord[2].

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[2] Établis en vertu de l'article 49 de la Loi sur le pétrole et le gaz du Canada (1982), les FREE financent des études environnementales et sociales directement reliées à l'exploration du pétrole et du gaz au Canada.

2. Celles de projets effectués au sud du 60° ainsi qu'au Nouveau-Québec et au Labrador - ces derniers faisant partie du territoire du Fonds renouvelable - Sud - et ayant des incidences directes sur la zone nordique, dont l'étude de milieux et de phénomènes typiques du Canada nordique ou communs aux régions froides en général. Elles peuvent correspondre à des entités nationales comme les vastes étendues des forêts, Boréale et Subarctique, sinon à des manifestations à gradient nordique tel le domaine du froid, ou la présence des insectes piqueurs.

Certaines recherches ne sont pas exclusivement reliées au Nord mais ont dans leur développement de fortes incidences sur le territoire nordique. Cependant elles n'ont été retenues que lorsque cette influence nous apparaissait claire, entre autres par la vision globale que ces recherches offraient. Dans d'autres cas elles ont été exclues parce que trop orientées à solutionner des problèmes spécifiques ou davantage méridionaux.

Dans cette catégorie nous avons retenu presque exclusivement les travaux de certains domaines clés s'ouvrant toujours sur des perspectives nordiques. Ce sont entre autres ceux, de la pollution et du froid, plus précisément la pollution par le pétrole, des transports en milieu marin froid ou en terrain vierge, de la faune nordique dont

les espèces migratrices, du froid, de la neige et de la glace dans toutes leurs manifestations, également de la télédétection dans ses préoccupations à identifier les phénomènes septentrionaux.

Des montants d'investissements reliés à certains projets de recherche d'extension nationale et même continentale n'ont finalement pas été retenus parce qu'il était difficile d'y évaluer le pourcentage d'application nordique. C'est notamment le cas de projets concernant les satellites de communications.

Il n'est également pas facile de respecter des limites géographiques arbitraires. L'inventaire concerne d'abord le Nord canadien ou le nord du 60°, mais a aussi tenu compte des recherches effectuées au nord des provinces canadiennes ou dans les laboratoires situés ailleurs, mais dont les recherches avaient un caractère nordique. Une première carte illustre la zone principale de cet inventaire (fig. 1).

SOURCES DE L'INVENTAIRE

Les références de ce rapport d'inventaire sont tirées des sources suivantes:

. CONSEIL DES ARTS DU CANADA:	. Rapport annuel - Supplément
. CONSEIL DES RECHERCHES MÉDICALES DU CANADA:	. Rapport du président
	. Liste de subventions et bourses
	. Répertoire de recherches en santé au Canada
. CONSEIL NATIONAL DE RECHERCHES CANADA:	. Compte rendu annuel des bourses et subventions d'aide à la recherche
	. Répertoire de la recherche dans les universités subventionnée par le gouvernement fédéral
. CONSEIL DE RECHERCHES EN SCIENCES NATURELLES ET EN GÉNIE DU CANADA:	. Liste des bourses et subventions de recherche
. CONSEIL DE RECHERCHES EN SCIENCES HUMAINES DU CANADA:	. Rapport annuel
. APPROVISIONNEMENTS ET SERVICES CANADA	. Bulletin: Recherche et développement

FIG. 1

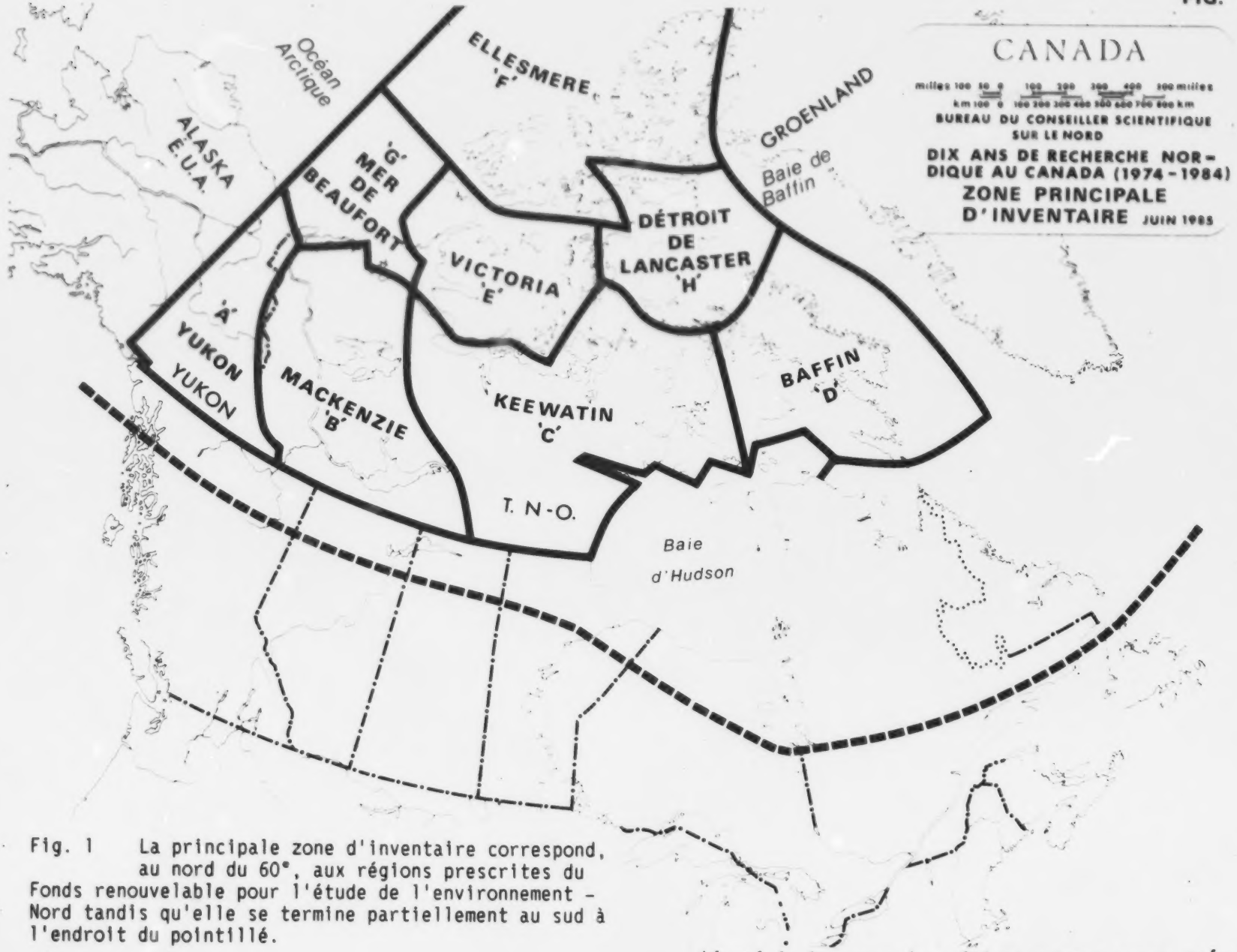

Fig. 1 La principale zone d'inventaire correspond, au nord du 60°, aux régions prescrites du Fonds renouvelable pour l'étude de l'environnement - Nord tandis qu'elle se termine partiellement au sud à l'endroit du pointillé.

Adapté de la carte des régions prescrites du FREE

CLASSIFICATION DES RÉFÉRENCES

Le lecteur découvrira que l'ensemble de la matière a été découpé en 75 rubriques ou thèmes qui tentent de faire ressortir les principaux secteurs des connaissances et des activités humaines applicables au Nord. Le rapport s'ordonne selon ces thèmes en 75 chapitres différents marqués d'un titre spécifique, lesquels sont classés par ordre alphabétique (tableau I). On pourra dès lors identifier les sommes dépensées dans chacun des domaines comme se permettre tous les regroupements possibles. Ces domaines réunis dans un ordre plus fonctionnel et plus pratique sont de nouveau retrouvés dans un plan structural (tableau II). Ce dernier inclut les aspects du milieu physique, biologique, écologique et anthropique dont l'écologie de l'homme et ses activités depuis le niveau primaire jusqu'au niveau d'organisation et de planification, soit le niveau quaternaire.

La classification des références selon une liste relativement exhaustive de thèmes ne peut que faciliter la recherche de l'information. Le mode de classification choisi a de plus favorisé des regroupements plus englobants de certains sujets tels le déversement de pétrole ou l'étude des glaces flottantes et des mammifères marins alors qu'en général il satisfera à une certaine spécialisation en distinguant par exemple entre la recherche pure, la mise en valeur d'un produit, ou les impacts associés a une activité.

L'intéressé pourra trouver néanmoins dans un index d'association des sujets le fil d'Ariane d'un même intérêt.

Un dernier chapitre appelé Nouveau-Québec/Labrador fait état de l'ensemble de la recherche nordique de cette partie du Canada dont la situation éminemment nordique exigeait de la considérer à part et retenons qu'une grande partie des références qui s'y rapportent ont aussi été ajoutées à la compilation générale.

TABLEAU I

LISTE DES THÈMES DE RECHERCHE

1. Acidification, précipitations acides
73. Adaptation au froid
4. Affaires circumpolaires
2. Agriculture, élevage
3. Archéologie, préhistoire
63. Aspects sociaux et socio-économiques - évolution
50. Autochtones et organisations autochtones
5. Climatologie, météorologie, effets des phénomènes climatiques
7. Communications
9. Conservation, réglementation
10. Coopératives, petites entreprises, approvisionnement, services publics
11. Culture, arts, langues, religion - évolution
70. Déchets et eaux usées (entreposage et traitement)
12. Démographie
8. Développement communautaire
54. Déversement de pétrole (tous les aspects)
14. Écologie, inventaires écologiques, description de l'environnement
13. Économie et développement économique
31. Écosystèmes d'eau douce
20. Écosystèmes estuariens
45. Écosystèmes marins
65. Écosystèmes terrestres
15. Éducation
71. Élevage d'animaux sauvages
16. Emploi et formation
17. Énergie (général)
19. Environnement, pollution (général), évaluation des impacts, techniques
29. Exploitation forestière (tous les aspects)
21. Faune avienne
26. Faune: général (vertébrés)
22. Faune ichtyenne
23. Faune: mammifères marins
25. Faune semi-aquatique et mammifères d'eau douce
24. Faune terrestre
30. Feux de forêt, feux de toundra
28. Forêts
32. Géographie, toponymie, études régionales
33. Géologie, géophysique, physique et sujets connexes
34. Géomorphologie et Quaternaire
40. Glaces, icebergs, affouillements glaciels
35. Glaciologie
36. Gouvernement (organisations, politiques...)
37. Histoire
38. Hydroélectricité
39. Hydrologie, hydrographie, hydraulique, limnologie physico-chimique
18. Ingénierie, construction et matériaux, architecture
74. Insectes piqueurs, démoustication
41. Invertébrés, micro-organismes (benthos, plancton...)
42. Justice, loi, droit coutumier, droit constitutionnel
46. Médecine, physiologie humaine, santé publique
47. Mercure
48. Minéraux (exploration, développement, technologie, résidus, impacts)
75. Modification du sol
62. Neige
53. Océanographie (physique)
55. Parcs, réserves de la biosphère et écologiques
27. Pêcheries
57. Pergélisol, sols, phénomènes périglaciaires
56. Pétrole et gaz naturel (exploration, développement, technologie, impacts associés)
68. Pollution sous-marine par le bruit, bruits industriels
52. Recherche nordique, méthodologies, bibliographies
51. Récolte autochtone
59. Ressources renouvelables (général)
61. Restauration de sites, mitigation
43. Revendications territoriales, ententes, traités
64. Souveraineté, défense, politique internationale
49. Surveillance (général)
58. Télédétection, systèmes informatisés
66. Tourisme, chasse et pêche sportives, loisirs, services culturels
67. Transports, systèmes de transport, brise-glaces et leur technologie
44. Utilisation et gestion des terres, aménagement du territoire, développement régional
69. Végétation, botanique, flore
6. Zones côtières et rivages

72. Autres sujets
100. Nouveau-Québec/Labrador

TABLEAU II

STRUCTURE DES THÈMES DE RECHERCHE

I. LE MILIEU PHYSIQUE

A. Climatologie, météorologie, effets des phénomènes climatiques (5)
B. Géologie, géophysique, physique et sujets connexes (33)
C. Géomorphologie et Quaternaire (34)
. Zones côtières et rivages (6)
D. Pergélisol, sols, phénomènes périglaciaires (57)
E. Neige (62)
F. Glace, icebergs, affouillements glaciels (40)
G. Glaciologie (35)
H. Hydrologie, hydrographie, hydraulique, limnologie physico-chimique (39)
I. Océanographie (physique) (53)

II. LE MILIEU BIOLOGIQUE

A. Végétation, botanique, flore (69)
B. Forêts (28)
. Feux de forêt, feux de toundra (30)
C. Faune: général, (vertébrés) (26)
D. Faune ichtyenne (22)
E. Faune avienne (21)
F. Faune: mammifères marins (23)
G. Faune semi-aquatique et mammifères d'eau douce (25)
H. Faune terrestre (24)
I. Invertébrés et micro-organismes (benthos, plancton...) (41)

III. LE MILIEU ÉCOLOGIQUE

A. Géographie, toponymie, études régionales (32)
B. Écologie, inventaires écologiques, description de l'environnement (14)
C. Écosystèmes d'eau douce (31)
D. Écosystèmes estuariens (20)
E. Écosystèmes marins (45)
F. Écosystèmes terrestres (65)

IV. LE MILIEU ANTHROPIQUE

A. Archéologie, préhistoire (3)
B. Histoire (37)
C. Autochtones et organisations autochtones (50)
D. Aspects socio-culturels
. Culture, arts, langues, religion - évolution (11)
E. Aspects sociaux et socio-économiques - évolution (63)
. Développement communautaire (8)
F. Démographie (12)
G. Économie et développement économique (13)

1. Activités primaires

a. Activités de subsistance (cueillette, chasse, pêche, trappage)
. Récolte autochtone (51)
b. Agriculture, élevage (2)
. Élevage d'animaux sauvages (71)

c. Pêcheries (27)
d. Énergie (général) (17)
e. Hydroélectricité (38)
f. Exploitation minière
   . Minéraux (exploration, développement, technologie, résidus, impacts) (48)
   . Pétrole et gaz naturel (exploration, développement, technologie, impacts associés) (56)
g. Exploitation forestière (tous les aspects) (29)
h. Ressources renouvelables (général) (59)

2. Activités secondaires et tertiaires

a. Coopératives, petites entreprises, approvisionnement, services publics (10)
b. Transports, systèmes de transport, brise-glaces et leur technologie (67)
c. Communications (7)
d. Ingénierie, construction et matériaux, architecture (18)
e. Contrôle de la pollution, gérance des déchets
   . Environnement et pollution, évaluation des impacts, techniques (19)
   . Acidification, précipitations acides (1)
   . Déversement de pétrole (tous les aspects) (54)
   . Modification du sol (75)
   . Déchets et eaux usées (entreposage et traitement) (70)
   . Pollution sous-marine par le bruit, bruits industriels (68)
   . Restauration de sites, mitigation (61)
f. Médecine, physiologie humaine, santé publique (46)
   . Adaptation au froid (73)
   . Insectes piqueurs, démoustication (74)
   . Mercure (47)
g. Éducation (15)
h. Emploi et formation (16)
i. Recherche nordique, méthodologies, bibliographies (52)
   . Télédétection, systèmes informatisés (58)
j. Tourisme, chasse et pêche sportives, loisirs, services culturels (66)

3. Activités quaternaires

a. Gouvernement (organisations, politiques...) (36)
b. Justice, droit, droit coutumier, droit constitutionnel (42)
   . Revendications territoriales, ententes, traités (43)
c. Utilisation et gestion des terres, aménagement du territoire, développement régional (44)
d. Surveillance (général) (49)
e. Conservation, réglementation (9)
   . Parcs, réserves de la biosphère et écologiques (55)
f. Souveraineté, défense, politique internationale (64)
   . Affaires circumpolaires (4)

Autres sujets: (72)
Nouveau-Québec/Labrador (100)

BILAN ET ANALYSE PRÉLIMINAIRE[3]

Comme il a été dit précédemment, les références concernant les projets de recherche nordique ont été sélectionnées grâce à l'inventaire et l'examen de différente sources d'information. Par la suite, elles ont été groupées sous chacun des thèmes de recherche auxquelles elles appartiennent respectivement.

. TABLEAU III

Le Tableau III présente le bilan des dépenses totales et du nombre de références associées à la période 1974-1984. A la section a on apprend que 5 324 références s'appliquent au Nord du 60° et totalisent un investissement de 157,7 millions de dollars. De ces références environ 472 viennent du Nouveau-Québec/Labrador soit pour près de 12 millions. C'est donc plus de la moitié des études concernant ce territoire qui ont été jugées valables pour le Nord du 60°, les autres n'étant pas retenues parce que trop spécifiques. La section b révèle en effet que 866 références rassemblées sous le thème 100 correspondent au secteur du Nouveau-Québec/Labrador avec des dépenses totales de 21,4 millions.

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3 Même si ce premier inventaire, dont on offre le bilan et une analyse préliminaire, constitue un apport important à la connaissance de la recherche nordique et des coûts impliqués, ses conclusions ne peuvent être que partielles.

TABLEAU III

DÉPENSES TOTALES ET NOMBRE DE RÉFÉRENCES

a) NORD DU 60° (incluant des références pertinentes du Nouveau-Québec/Labrador)

Dépenses totales: 157,7 millions ($)

Nombre de références: 5 324

b) NOUVEAU-QUÉBEC/LABRADOR

Dépenses totales: 21,4 millions ($)

Nombre de références: 866

c) GRAND TOTAL (Nord, incluant toutes les dépenses et références du Nouveau-Québec/Labrador)

Dépenses totales: 167,6 millions ($)

Nombre de références: 5 718

La section c présente finalement la somme totale de toutes les références et de l'investissement concernant à la fois le Nord du Canada et le Nouveau-Québec/Labrador.

. TABLEAU IV

Le tableau IV offre côte à côte et dans un ordre d'investissement décroissant, les thèmes de recherche, le nombre total de références, le montant total dépensé et la moyenne par projet. Il met ainsi en lumière l'importance relative du soutien fédéral à chacun des champs de recherche mentionnés et fournit un indice de l'ordre de priorité accordé à chacun d'eux. Par contre, certains projets de recherche, de par leur nature même requièrent des investissements plus importants que d'autres, ce que suggère notamment la moyenne (voir Transports, Récolte autochtone, Communications etc.).

. TABLEAU V

Le Tableau V utilise les mêmes types de résultats (nombre de références, dépenses) mais en les intégrant dans le plan structural des thèmes de recherche. Le regroupement de ces données permet de comparer des champs de recherche plus larges comme ceux des sciences physiques, des sciences biologiques, de l'écologie ou du milieu anthropique (milieu humain).

TABLEAU IV

LISTE DES THÈMES DE RECHERCHE, DU NOMBRE DE RÉFÉRENCES ET DE L'INVESTISSEMENT

Thèmes	Nombre de Références	Total ($)	Moyenne ($)
67 Transports...	177	20 719 396	117 059
58 Télédétection...	198	18 300 284	92 425
33 Géologie...	560	13 974 850	24 955
54 Déversement de pétrole...	318	11 499 349	36 162
40 Glaces, icebergs...	284	8 565 815	30 161
52 Recherche nordique...	261	6 807 822	26 084
56 Pétrole et gaz naturel...	191	6 399 653	33 506
18 Ingénierie...	256	5 767 360	22 529
57 Pergélisol, sols...	240	4 248 830	17 703
34 Géomorphologie...	189	3 401 345	7 997
5 Climatologie...	114	3 276 614	28 742
7 Communications	34	3 233 635	95 107
73 Adaptation au froid	168	3 014 839	17 945
19 Environnement...	96	2 940 046	30 625
41 Invertébrés...	148	2 834 716	19 153
48 Minéraux...	84	2 742 552	32 649
53 Océanographie (physique)	117	2 649 331	22 644
69 Végétation...	143	2 611 840	18 264
46 Médecine...	62	2 509 088	40 469
74 Insectes piqueurs...	139	2 469 528	17 766
39 Hydrologie...	98	2 405 623	24 547
17 Énergie (général)	59	2 376 213	40 275
11 Culture, arts...	223	1 973 213	8 848
21 Faune avienne	110	1 872 207	17 020
2 Agriculture, élevage	16	1 407 528	87 971
26 Faune: général (vertébrés)	74	1 274 381	17 221
70 Déchets et eaux usées...	62	1 165 885	18 804
3 Archéologie, préhistoire	39	1 108 345	28 419
35 Glaciologie	79	1 049 683	13 287
62 Neige	79	1 049 250	13 282
14 Écologie...	68	960 715	14 128
22 Faune ichtyenne	79	951 721	12 047
23 Faune: mammifères marins	58	880 104	15 174
44 Utilisation et gestion des terres...	19	873 340	45 965
24 Faune terrestre	66	792 918	12 014

Thèmes		Nombre de Références	Total ($)	Moyenne($)
1	Acidification...	27	726 414	26 904
51	Récolte autochtone	6	691 304	115 217
49	Surveillance (général)	13	652 502	50 192
6	Zones côtières...	25	557 674	22 307
38	Hydroélectricité	9	546 901	60 767
31	Écosystèmes d'eau douce	11	541 939	49 267
75	Modification du sol	7	466 148	66 593
9	Conservation...	10	439 711	43 971
37	Histoire	50	400 464	8 009
68	Pollution sous-marine par le bruit...	13	385 247	29 634
30	Feux de forêt...	15	383 530	25 569
27	Pêcheries	15	380 008	25 334
61	Restauration de sites...	10	372 321	37 232
45	Ecosystèmes marins	22	303 550	13 798
47	Mercure	13	260 422	20 032
28	Forêts	18	259 966	14 443
36	Gouvernement...	12	221 296	18 441
10	Coopératives...	11	201 225	18 293
32	Géographie...	8	200 428	20 053
16	Emploi et formation	14	189 261	13 519
29	Exploitation forestière	3	171 577	57 192
12	Démographie	15	151 381	10 092
42	Justice, loi...	8	149 800	18 725
15	Éducation	12	138 401	11 533
43	Revendications territoriales...	12	128 625	10 719
50	Autochtones...	14	115 830	8 274
63	Aspects sociaux...	12	110 492	9 208
63	Souveraineté...	6	102 830	17 138
13	Économie...	6	102 830	17 138
59	Ressources renouvelables...	9	87 176	9 686
66	Tourisme...	3	44 985	14 995
65	Écosystèmes terrestres	1	35 200	35 200
4	Affaires circumpolaires	3	20 175	6 725
55	Parcs...	2	5 050	2 525
25	Faune semi-aquatique...	1	2 500	2 500
71	Élevage d'animaux sauvages	0	0	0
20	Écosystèmes estuariens	0	0	0
8	Développement communautaire	0	0	0

D'importantes sommes d'argent ont été investies dans la recherche touchant les activités humaines actuelles ou passées, soit environ 102 millions pour 2 717 projets. D'autre part, 55 millions et 2 607 projets concernant l'étude des milieux physique, biologique et écologique. On peut sans doute en déduire que la recherche nordique aurait donc eu tendance à favoriser l'étude des activités de l'homme et leur impact sur le milieu plutôt que l'étude du milieu lui-même, indiquant que l'emphase a été mise sur la recherche appliquée plutôt que sur la recherche pure. Le tableau V révèle aussi que le soutien du gouvernement fédéral dans le domaine des sciences pures et appliquées l'emporte très largement sur celui des secteurs de la sociologie, de la socio-économie, des arts, de la culture, de l'éducation et même de la santé. Ainsi à titre indicatif, quelque 466 références reliées à ces domaines totalisent 7,8 millions[4], soit 8,8% du nombre total de références (5 324) et 4,9% des sommes dépensées dans la recherche nordique (157,7 millions). Si on y ajoute par exemple le thème Communications (vocation sociale, éducative, etc.) on atteint 500 références et environ 11 millions soit 9,4% du nombre total de références et 7% des sommes dépensées, ce qui est encore relativement très faible.

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4 Somme des thèmes 3, 8, 11, 12, 13, 15, 16, 37, 46, 47, 50, 51, 63.

. TABLEAU VI

Un très petit nombre de thèmes de recherche canalisent une très large part de l'investissement. Ainsi les six thèmes les plus forts accaparent 1 728 références et 79,5 millions, soit 33% du nombre total de références et 50% de l'ensemble des dépenses.

. TABLEAU VII

La localisation des investissements de recherche s'est effectuée selon les zones géographiques[5] suivantes:

- Les références identifées au Nord ou à l'Arctique en général ont été groupées sous la rubrique Nord (36,8%).

- Les références qui ont pu être localisées dans de larges régions géographiques ont été groupées sous les rubriques Ouest, Centre-Nord, Centre-Sud et Est (2,9%).

- Les références qui identifiaient un lieu plus spécifique ont pu être groupées selon les huit régions du Fonds renouvelable pour l'étude de l'environnement - Nord (FREE-Nord) (14,8%).

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5 Lorsqu'un projet concernait plus d'une région géographique, aucune tentative n'a été faite pour répartir entre elles le montant d'investissement.

TABLEAU V

STRUCTURE DES THÈMES DE RECHERCHE, NOMBRE DE RÉFÉRENCES ET INVESTISSEMENT

Nombre de références	Total $		
		I.	LE MILIEU PHYSIQUE: (1 785 références) 41 179 015 $ (Moy: 23 069 $)
114	3 276 614		A. Climatologie, météorologie, effets des phénomènes climatiques (5)
560	13 974 850		B. Géologie, géophysique, physique et sujets connexes (33)
189	3 401 345		C. Géomorphologie et Quaternaire (34)
25	557 674		. Zones côtières et rivages (6)
240	4 248 830		D. Pergélisol, sols, phénomènes périglaciaires (57)
79	1 049 250		E. Neige (62)
284	8 565 815		F. Glace, icebergs, affouillements glaciels (40)
79	1 049 683		G. Glaciologie (35)
98	2 405 623		H. Hydrologie, hydrographie, hydraulique, limnologie physico-chimique (39)
117	2 649 331		I. Océanographie (physique) (53)
		II.	LE MILIEU BIOLOGIQUE: (712) 11 863 883 $ (Moy: 16 663 $)
143	2 611 840		A. Végétation, botanique, flore (69)
18	259 966		B. Forêts (28)
15	383 530		. Feux de forêt, feux de toundra (30)
74	1 274 381		C. Faune: général (vertébrés) (26)
79	951 721		D. Faune ichtyenne (22)
110	1 872 207		E. Faune avienne (21)
58	880 104		F. Faune: mammifères marins (23)
1	2 500		G. Faune semi-aquatique et mammifères d'eau douce (25)
66	792 918		H. Faune terrestre (24)
148	2 834 716		I. Invertébrés et micro-organismes (benthos, plancton...) (41)
		III.	LE MILIEU ÉCOLOGIQUE: (110) 2 041 832 $ (Moy: 18 562 $)
8	200 428		A. Géographie, toponymie, études régionales (32)
68	960 715		B. Écologie, inventaires écologiques, description de l'environnement (14)
11	541 939		C. Écosystèmes d'eau douce (31)
0	0		D. Écosystèmes estuariens (20)
22	303 550		E. Écosystèmes marins (45)
1	35 200		F. Écosystèmes terrestres (65)

Nombre de Références	Total $		
		IV. LE MILIEU ANTHROPIQUE: (2 717) 102 569 959 $ (Moy: 37 751 $)	
39	1 108 345	A. Archéologie, préhistoire (3)	
50	400 464	B. Histoire (37)	
14	115 830	C. Autochtones et organisations autochtones (50)	
		D. Aspects socio-culturels	
223	1 973 213	. Culture, arts, langues, religion - évolution (11)	(359)
12	110 492	E. Aspects sociaux et socio-économiques - évolution (63)	3 962 062 $
0	0	. Développement communautaire (8)	(Moy: 12 034 $)
15	151 381	F. Démographie (12)	
6	102 337	G. Économie et développement économique (13)	
		1. Activités primaires: (392) 14 802 912 $ (Moy: 37 763 $)	
		a. Activités de subsistance (cueillette, chasse, pêche, trappage)	(6)
6	691 304	. Récolte autochtone (51)	691 304 $ (Moy: 115 217 $)
16	1 407 528	b. Agriculture, élevage (2)	
0	0	. Élevage d'animaux sauvages (71)	
15	380 008	c. Pêcheries (27)	
59	2 376 213	d. Énergie (général) (17)	
9	546 901	e. Hydroélectricité (38)	
		f. Exploitation minière	
84	2 742 552	. Minéraux (exploration, développement, technologie, résidus, impacts) (48)	
191	6 399 653	. Pétrole et gaz naturel (exploration, développement, technologie, impacts associés) (56)	
3	171 577	g. Exploitation forestière (tous les aspects) (29)	
9	87 176	h. Ressources renouvelables (général) (59)	

Nombre de Références	Total $			
		2. Activités secondaires et tertiaires: (1 881) 81 211 656 $ (Moy: 43 175 $)		
11	201 225	a. Coopératives, petites entreprises, approvisionnement, services publics (10)	(478)	
177	20 719 396	b. Transports, systèmes de transport, brise-glaces et leur technologie (67)	29 921 616 $	
34	3 233 635	c. Communications (7)	(Moy: 62 598 $)	
256	5 767 360	d. Ingénierie, construction et matériaux, architecture (18)		
		e. Contrôle de la pollution, gérance des déchets		
96	2 940 046	. Environnement et pollution, évaluation des impacts, techniques (19)		
27	726 414	. Acidification, précipitations acides(1)	(533)	
318	11 499 349	. Déversement de pétrole (tous les aspects) (54)	(17 555 410 $	
7	466 148	. Modification du sol (75)	(Moy: 32 937 $)	
62	1 165 885	. Déchets et eaux usées (entreposage et traitement) (70)		
13	385 247	. Pollution sous-marine par le bruit, bruits industriels (68)		
10	372 321	. Restauration de sites, mitigation (61)		
62	2 509 088	f. Médecine, physiologie humaine, santé publique (46)		
168	3 014 839	. Adaptation au froid (73)	(382)	
139	2 469 528	. Insectes piqueurs, démoustication (74)	8 253 877 $	
13	260 422	. Mercure (47)	(Moy: 21 607 $)	
12	138 401	g. Éducation (15)		
14	189 261	h. Emploi et formation (16)		
261	6 807 822	i. Recherche nordique, méthodologies, bibliographies (52)	(488)	
198	18 300 284	. Télédétection, systèmes informatisés (58)	25 480 753 $	
3	44 985	j. Tourisme, chasse et pêche sportives, loisirs, services, culturels (66)	(Moy: 52 215 $)	

Nombre de Références	Total $	
		3. Activités quaternaires: (85) 2 593 329 $ (Moy: 30 510 $)
12	221 296	a. Gouvernement (organisations, politiques...) (36)
8	149 800	b. Justice, droit, droit coutumier, droit constitutionnel (42)
12	128 625	. Revendications territoriales, ententes, traités (43)
19	873 340	c. Utilisation et gestion des terres, aménagement du territoire, développement régional (44)
13	652 502	d. Surveillance (général) (49)
10	439 711	e. Conservation, réglementation (9)
2	5 050	. Parcs, réserves de la biosphère et écologiques (55)
6	102 830	f. Souveraineté, défense, politique internationale (64)
3	20 175	. Affaires circumpolaires (4)
0	0	Autres sujets: (72)
866	21 429 975	Nouveau-Québec/Labrador (100): (866) 21 429 975 $ (Moy: 24 746 $)

TABLEAU VI

INVESTISSEMENTS MAJEURS

Thèmes	Total (millions $)	Nombre de références	Moyenne ($)
Thème 67, Transports...	20,7	177	117 059
Thème 58, Télédétection...	18,3	198	92 425
Thème 33, Géologie...	14,0	560	24 955
Thème 54, Déversement de pétrole...	11,5	318	36 162
Thème 40, Glaces, icebergs...	8,6	284	30 161
Thème 56, Pétrole et gaz...	6,4*	191	33 506
Total (6 thèmes)	79,5	1 728	
% du total de l'investissement et des références	50%	33%	

* Le thème 56 a été choisi comme 6e investissement majeur parce que le thème 52 (Recherche nordique...) nous est apparu trop général.

- Les références provenant du thème Nouveau-Québec/Labrador ont été groupées sous Nouveau-Québec/Labrador (7,3%).

- Les références concernant les projets réalisés au sud du 60° ou qui n'étaient pas identifiées par une localisation géographique ont été classifiées sous la rubrique "Sans localisation nordique" (38,2%).

La section a du tableau VII montre la distribution des investissements de recherche selon ces cinq grandes rubriques géographiques.

A la section b on trouve un groupement de références et de 23,4 millions d'investissement selon les régions du FREE-Nord (fig. 2).

A la section c d'autres références totalisant 4,6 millions sont distribuées selon les quatre régions géographique que sont: l'Ouest, le Centre-Nord, le Centre-Sud et l'Est (fig. 3).

La section d combine finalement les sections b et c et offre sous une même dénomination la somme des régions, soit près de 28 millions d'investissements relativement bien localisés au Nord du 60°. On atteint alors un taux de localisation d'environ 17,7% par rapport au total de 157,7 millions en investissement de recherche (fig. 4), par contre de 25% si on ajoute les quelques

11,5 millions du Nouveau-Québec/Labrador et finalement de 61,8% si on tient compte de toute localisation nordique.

La section d et la figure 4 révèlent également que plus de la moitié du soutien fédéral a été allouée à l'Arctique de l'Ouest (Ouest), ceci s'expliquant par les importantes activités pétrolières et gazières dans la mer de Beaufort et la vallée du Mackenzie. La seconde cible de ce soutien a été l'Arctique de l'Est (Est) à cause d'abord des études dans le détroit de Lancaster mais aussi, des projets de BIOS (Baffin Island Oil Spill), BRIA (Baffin Region Inuit Association), etc. Tandis que moins d'effort a été consacré à la région Centre-Nord et relativement peu à la région Centre-Sud.

Voilà donc certaines des tendances générales que l'on peut dégager de l'analyse préliminaire de l'information contenue dans ce premier inventaire de la recherche nordique supportée par le gouvernement fédéral de 1974 à 1984. À ce point-ci il ne parait pas souhaitable de s'engager dans une analyse plus poussée surtout que toute l'information n'a pas encore été rassemblée. Tenter d'être plus précis et plus catégorique risquerait d'induire en erreur.

Remarques additionnelles

D'autres données devront être intégrées à cet inventaire pour donner une image encore plus complète de l'ensemble du soutien fédéral

à la recherche nordique. Ces données supplémentaires contribueront non seulement à accroître le nombre de références et les montants investis, mais elles amèneront, probablement certains changements dans l'ordre d'importance des différents champs de recherche.

Toutefois ce premier inventaire peut être considéré comme un bon indice de la contribution du gouvernement fédéral à la recherche nordique durant les dix dernières années. Son analyse a eu pour objet d'en faire ressortir les principales tendances.

TABLEAU VII

LOCALISATION GÉNÉRALE DES INVESTISSEMENTS DE RECHERCHE

a) LOCALISATION GÉNÉRALE

Localisation	Investissements (millions $)	%
Nord	58,1	36,8
Grandes régions géographiques	4,6	2,9
Régions du FREE-Nord	23,4	14,8
Nouveau-Québec/Labrador	11,5	7,3
Sans localisation nordique	60,1	38,2
Total	157,7	100

b) RÉGIONS DU FREE-NORD (voir aussi fig. 2)

Régions	Investissements $	%
YUKON (A)	6 757 925	29
MACKENZIE (B)	2 380 035	10
KEEWATIN (C)	1 885 545	8
BAFFIN (D)	928 626	4
VICTORIA (E)	524 759	2
ELLESMERE (F)	2 252 183	10
MER DE BEAUFORT (G)	5 973 601	26
DÉTROIT DE LANCASTER (H)	2 659 046	11
TOTAL (REGIONS)	23 361 720	100

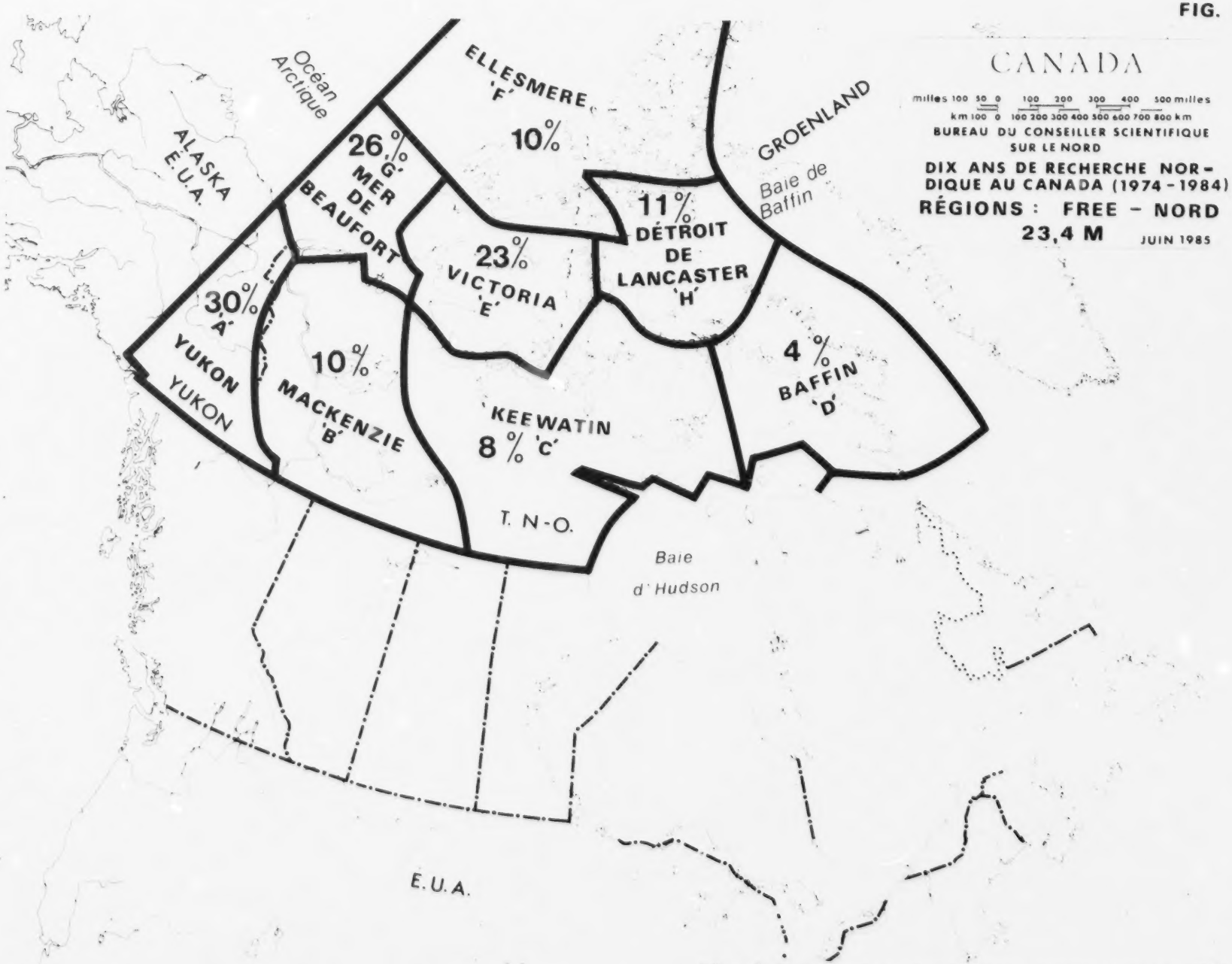
c) GRANDES RÉGIONS GÉOGRAPHIQUES (voir aussi fig. 3)

Régions géographiques	Investissements $	%
OUEST	848 583	19
CENTRE-SUD	67 925	1
EST	3 170 343	69
CENTRE-NORD	486 234	11
TOTAL (RÉGIONS)	4 573 085	100

d) GRANDES RÉGIONS GÉOGRAPHIQUES + RÉGIONS DU FREE-NORD (b+c) (voir aussi fig. 4)

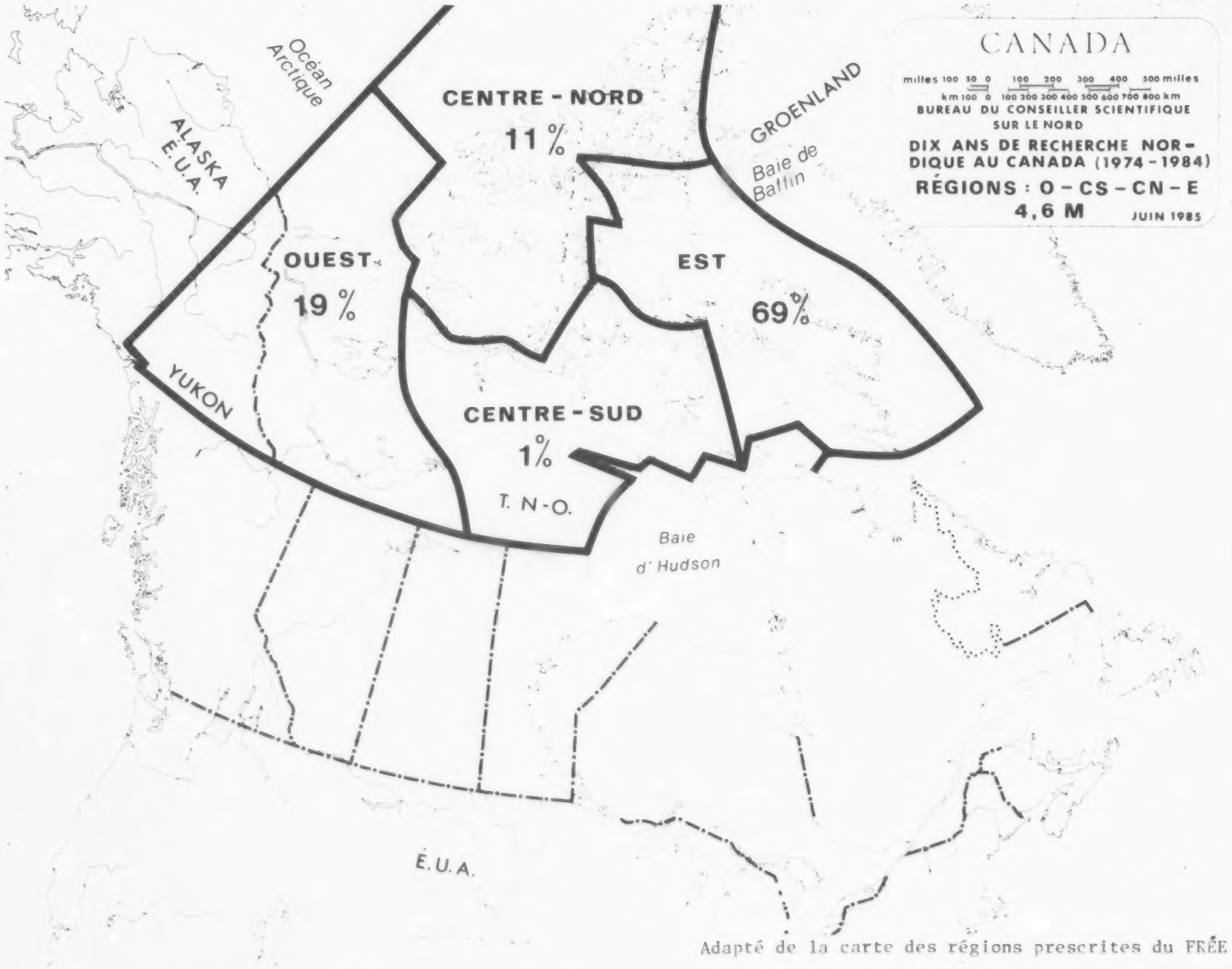
Aires concernées	Investissements $	%
OUEST (+ YUKON + MACKENZIE + MER DE BEAUFORT):	15 960 144	57
EST (+ DÉTROIT DE LANCASTER + BAFFIN):	6 758 015	24
CENTRE-SUD (+ KEEWATIN):	1 953 470	7
CENTRE-NORD (+ VICTORIA + ELLESMERE):	3 263 176	12
TOTAL (SOMME DES RÉGIONS)	27 934 805	100

FIG. 2



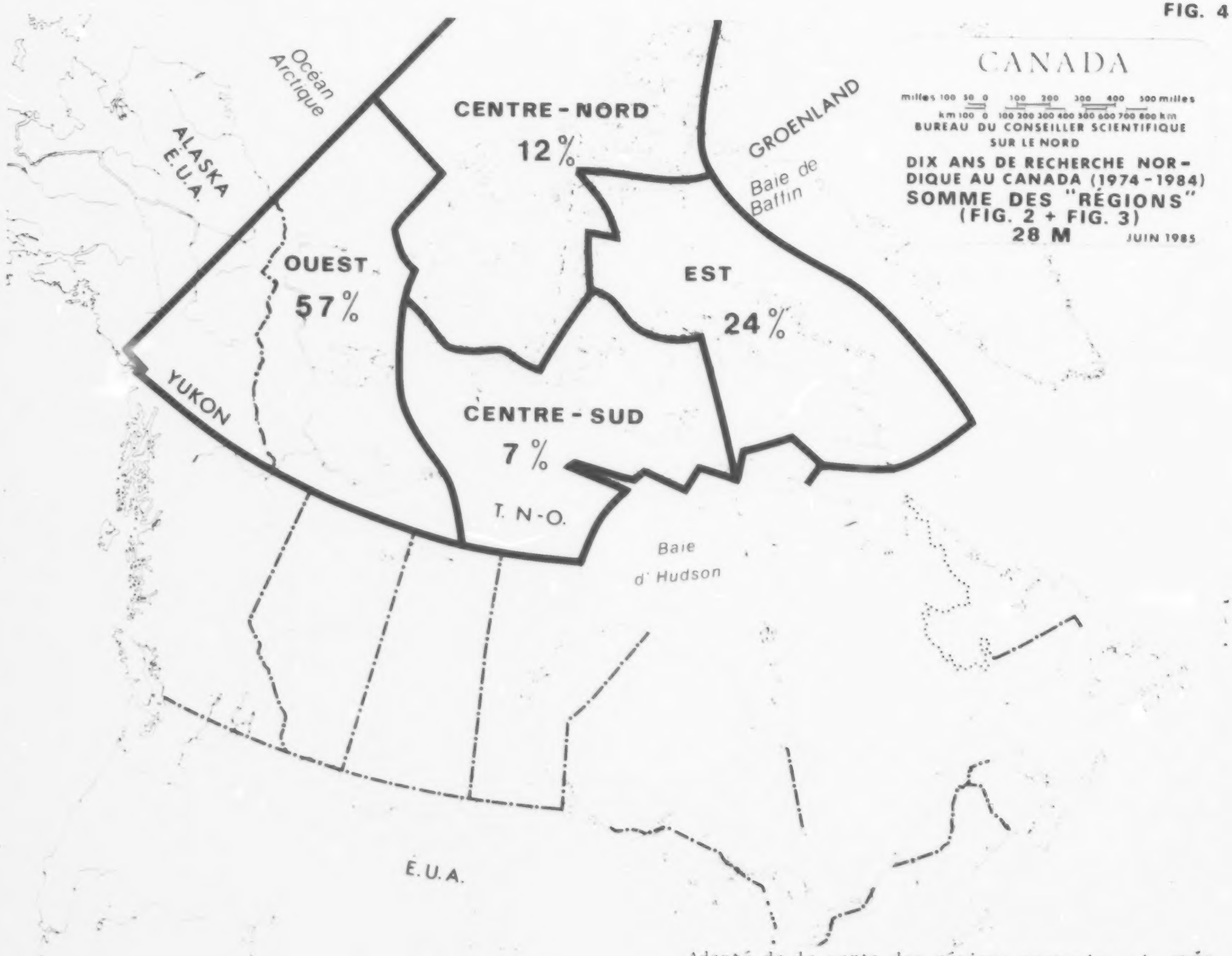
Adapté de la carte des régions prescrites du FRÉE

FIG. 3



Adapté de la carte des régions prescrites du FRÉE

FIG. 4



Adapté de la carte des régions prescrites du FRÉE

APPENDIX A

CROSS REFERENCES

(1)	Acidification, acid precipitation:	- Environment, pollution (general), impact assessment (19) - Climatology, meteorology, effects of climatic phenomena (5)
(2)	Agriculture, animal husbandry:	- Wild animal husbandry (71) - Permafrost, soils, periglacial features (57) - Cold acclimation (73)
(3)	Archeology, prehistory:	- History (37) - Culture, arts, languages, religion - evolution (11) - Native people and organizations (50)
(74)	Bloodsucking insects (study and control):	- Invertebrates, micro-organisms (benthos, plankton...) (41) - Vegetation, botany, flora (69)
(4)	Circumpolar issues:	- Sovereighty, defense, international policies (64)
(5)	Climatology, meteorology, effects of climatic phenomena:	- Acidification, acid precipitations (1) - Permafrost, soils, periglacial features (57) - Snow (62) - Ice, icebergs, ice scours (40) - Glaciology (35) - Hydrology, hydrography, hydraulics physico-chemical limnology (39) - Remote sensing, computer systems (58)
(6)	Coastal zones and shores:	- Geomorphology and Quaternary (34) - Ice, icebergs, ice scours (40) - Remote sensing, computer systems (58)
(73)	Cold acclimation:	- Medicine, human physiology, public health (46) - Climatology, meteorology, effects of climatic phenomena (5)
(7)	Communications:	- Engineering, construction and materials, architecture (18) - Transport, transportation systems, ice breakers and technology (67) - Medicine, human physiology, public health (46)

(8)	Community development:	- Social, socioeconomic issues - evolution (63) - Cooperatives, small businesses, supply services, public services (10) - Culture, arts, languages, religion - evolution (11)
(9)	Conservation, regulation:	- Land use and management, land use planning, regional development (44) - Parks, biosphere and ecological reserves (55) - Site rehabilitation, mitigation (61)
(10)	Cooperatives, small businesses, supply services, public services:	- Social, socioeconomic issues - evolution (63) - Community development (8) - Economy and economic development (13)
(11)	Culture, arts, languages, religion - evolution:	- Archeology, prehistory (3) - History (37) - Social, socioeconomic issues - evolution (63)
(12)	Demography:	- Native people and organizations (50) - History (37) - Archeology, prehistory (3)
(14)	Ecology, ecological inventories, environment descriptions:	- Geography, toponymy, regional studies (32) - Environment, pollution (general) impact assessment, techniques (19) - Remote sensing, computer systems (58)
(13)	Economy and economic development:	- Social, socioeconomic issues - evolution (63) - Community development (8) - Cooperatives, small businesses, supply services, public services (10)
(15)	Education:	- Employment and training (16) - Northern research, methodologies, bibliographies (52) - Culture, arts, languages, religion - evolution (11)
(16)	Employment and training:	- Education (15) - Northern research, methodologies, bibliographies (52) - Social, socioeconomic issues - evolution (63)

(17) Energy (general):
- Conservation, regulation (9)
- Forest exploitation (all issues) (29)
- Vegetation, botany, flora (69)

(18) Engineering, construction and materials, architecture:
- Minerals (exploration, development, technology, wastes, impacts) (48)
- Petroleum and natural gas (exploration, development, technology, associated impacts) (56)
- Transport, transportation systems, ice breakers and technology (67)
- Communications (7)
- Hydroelectricity (38)
- Energy (general) (17)
- Remote sensing, computer systems (58)

(19) Environment, pollution (general) impact assessment, techniques:
- Minerals (exploration, development, technology, wastes, impacts) (48)
- Petroleum and natural gaz (exploration development, technology, associated impacts) (56)
- Acidification, acid precipitation (1)
- Oil spills (all issues) (54)
- Terrain disturbance (75)
- Waste and waste water (disposal and treatment) (70)
- Underwater noise, industrial noise (68)
- Site rehabilitation, mitigation (61)
- Conservation, regulation (9)
- Remote sensing, computer systems (58)

(20) Estuarian ecosystems:
- Freshwater ecosystems (31)
- Marine ecosystems (45)
- Ecology, ecological inventories, environment description (14)
- Invertebrates, micro-organisms (benthos, plankton...) (41)

(21) Fauna: birds:
- Fauna: general (vertebrates) (26)
- Fauna: semi-aquatic and freshwater mammals (25)
- Ecology, ecological inventories, environment description (14)

(22) Fauna: fishes:
- Fauna: general (vertebrates) (26)
- Fisheries (27)
- Tourism, sport hunting and fishing, leisure activities, cultural services (66)

		- Native wildlife harvesting (51) - Ecology, ecological inventories, environment description (14) - Freshwater ecosystems (31) - Estuarian ecosystems (20) - Marine ecosystems (45)
(26)	Fauna: general (vertebrates):	- Fauna: fishes (22) - Fauna: birds (21) - Fauna: marine mammals (23) - Fauna: semi-aquatic and freshwater mammals (25) - Fauna: terrestrial (24) - Ecology, ecological inventories, environment description (14) - Freshwater ecosystems (31) - Estuarian ecosystems (20) - Marine ecosystems (45) - Terrestrial ecosystems (65) - Native wildlife harvesting (51) - Tourism, sport hunting and fishing, leisure activities, cultural services (66)
(23)	Fauna: marine mammals:	- Fauna: general (vertebrates) (26) - Marine ecosystems (45) - Ecology, ecological inventories, environment description (14)
(25)	Fauna: semi-aquatic and freshwater mammals:	- Fauna: general (vertebrates) (26) - Freshwater ecosystems (31) - Ecology, ecological inventories, environment description (14) - Terrestrial ecosystems (65) - Native wildlife harvesting (51)
(24)	Fauna: terrestrial:	- Fauna: general (vertebrates) (26) - Invertebrates, micro-organisms (benthos, plankton...) (41) - Terrestrial ecosystems (65) - Ecology, ecological inventories, environment description (14) - Native wildlife harvesting (51) - Tourism, sport hunting and fishing, leisure activities, cultural services (66) - Wild animal husbandry (71)

(27) Fisheries:
- Fauna: fishes (22)
- Fauna: general (vertebrates) (26)
- Native wildlife harvesting (51)
- Tourism, sport hunting and fishing, leisure activities, cultural services (66)
- Renewable resources (general) (59)
- Freshwater ecosystems (31)
- Estuarian ecosystems (20)
- Marine ecosystems (45)

(29) Forest exploitation (all issues):
- Forests (28)
- Renewable resources (59)
- Vegetation, botany, flora (69)
- Forest fires, tundra fires (30)
- Energy (general) (17)
- Remote sensing, computer systems (58)

(30) Forest fires, tundra fires:
- Forests (28)
- Forest exploitation (all issues) (29)
- Vegetation, botany, flora (69)
- Remote sensing, computer systems (58)

(28) Forests:
- Forest exploitation (all issues) (29)
- Vegetation, botany, flora (69)
- Forests fires, tundra fires (30)
- Renewable resources (59)
- Remote sensing, computer systems (58)

(31) Freshwater ecosystems:
- Estuarian ecosystems (20)
- Fauna: fishes (22)
- Fauna: semi-aquatic and freshwater mammals (25)
- Invertebrates, micro-organisms (benthos, plankton...) (41)

(32) Geography, toponymy, regional studies:
- Ecology, ecological inventories, environment description (14)
- Land use and management, land use planning, regional development (44)
- Northern research, methodologies, bibliographies (52)

(33) Geology, geophysics, physics and related issues:
- Geomorphology and Quaternary (34)
- Minerals (exploration, development, technology, wastes, impacts) (48)
- Petroleum and natural gas (exploration, development, technology, associated impacts) (56)
- Remote sensing, computer systems (58)

(34) Geomorphology and Quaternary:
- Geology, geophysics, physics and related issues (33)
- Geography, toponymy, regional studies (32)
- Coastal zones and shores (6)
- Permafrost, soils, periglacial features (57)
- Snow (62)
- Ice, icebergs, ice scours (40)
- Glaciology (35)
- Hydrology, hydrography, hydraulics, physico-chemical limnology (39)
- Oceanography (physical) (53)
- Climatology, meteorology, effects of climatic phenomena (5)
- Vegetation, botany, flora (69)
- Ecology, ecological inventories, environment description (14)
- Remote sensing, computer system (58)

(35) Glaciology:
- Climatology, meteorology, effects of climatic phenomena (5)
- Geomorphology and Quaternary (34)
- Snow (62)
- Ice, icebergs, ice scours (40)
- Hydrology, hydrography, hydraulics, physico-chemical limnology (39)
- Engineering, construction and materials, architecture (18)

(36) Government (organizations, policies...):
- Sovereignty, defense, international policies (64)
- Native people and organizations (50)
- Conservation, regulation (9)

(37) History:
- Archeology, prehistory (3)
- Culture, arts, languages, religion - evolution (11)
- Social, socioeconomic issues - evolution (63)
- Demography (12)

(38) Hydroelectricity:
- Renewable resources (general) (59)
- Hydrology, hydrography, hydraulics, physico-chemical limnology (39)
- Energy (general) (17)

(39)	Hydrology, hydrography, hydraulics, physico-chemical limnology:	- Climatology, meteorology, effects of of climatic phenomena (5) - Freshwater ecosystems (31) - Geomorphology and Quaternary (34) - Ice, icebergs, ice scours (40) - Waste and waste water (disposal and treatment) (70)
(40)	Ice, icebergs, ice scours:	- Climatology, meteorology, effects of climatic phenomena (5) - Geomorphology and Quaternary (34) - Snow (62) - Glaciology (35) - Hydrology, hydrography, hydraulics, physico-chemical limnology (39) - Remote sensing, computer systems (58) - Transport, transportation systems, ice breakers and technology (67) - Engineering, construction and materials, architecture (18)
(41)	Invertebrates, micro-organisms (benthos, plankton...):	- Freshwater ecosystems (31) - Estuarian ecosystems (20) - Marine ecosystems (45) - Terrestrial ecosystems (65) - Ecology, ecological inventories, environment description (14) - Hydrology, hydrography, hydraulics, physico-chemical limnology (39) - Bloodsucking insects (study and control (74)
(42)	Justice, law, folk law, constitutional law:	- Lands claims, agreements (43) - Government (organizations, policies...) (36) - Conservation, regulation (9) - Culture, arts, languages, religion - evolution (11)
(43)	Land claims, agreements:	- Justice, law, folk law, constitutional law (42) - Government (organizations, policies...) (36) - Native people and organizations (50) - History (37) - Native wildlife harvesting (51)

(44)	Land use and management, land use planning, regional development:	- Monitoring (general) (49) - Conservation, regulation (9) - Geography, toponymy, regional studies (32) - Ecology, ecological inventories, environment description (14)
(45)	Marine ecosystems:	- Estuarian ecosystems (20) - Fauna: marine mammals (23) - Oceanography (physical) (53) - Ice, icebergs, ice scours (40) - Invertebrates, micro-organisms (benthos, plankton...) (41)
(46)	Medicine, human physiology, public health:	- Cold acclimation (73) - Bloodsucking insects (study and control) (74) - Mercury (47) - Environment, pollution (general), impact assessment, techniques (19)
(47)	Mercury:	- Medicine, human physiology, public health (46) - Environment, pollution (general), impact assessment, techniques (19) - Minerals (exploration, development, technology, wastes, impacts) (48)
(48)	Minerals (exploration, development, technology, wastes, impacts):	- Environment, pollution (general) impact assessment, techniques (19) - Mercury (47) - Geology, geophysics, physics and related issues (33)
(49)	Monitoring (general):	- Environment, pollution (general) impact assessment, techniques (19) - Land use and management, land use planning, regional development (44) - Remote sensing, computer systems (58) - Conservation, regulation (9) - Site rehabilitation, mitigation (61)
(50)	Native people and organizations:	- Community development (8) - Native wildlife harvesting (51) - Justice, law, folk law, constitutional law (42) - Land claims, agreements (43)

(51)	Native wildlife harvesting:	- Native people and organizations (50) - Culture, arts, languages, religion - evolution (11) - Renewable resources (general) (59) - Land claims, agreements (43)
(52)	Northern research, methodologies, bibliographies:	- Education (15) - Land use and management, land use planning, regional development (44) - Employment and training (16) - Ecology, ecological inventories, environment description (14) - Geography, toponymy, regional studies (32)
(53)	Oceanography (physical):	- Marine ecosystems (45) - Climatology, meteorology, effects of climatic phenomena (5) - Geomorphology and Quaternary (34) - Ice, icebergs, ice scours (40) - Transport, transportation systems, ice breakers and technology (67) - Remote sensing, computer systems (58)
(54)	Oil spills (all issues):	- Petroleum and natural gas (exploration, development, technology, associated impacts) (56) - Ice, icebergs, ice scours (40) - Conservation, regulation (9)
(55)	Parks, biosphere and ecological reserves:	- Conservation, regulation (9) - Land use and management, land use planning, regional development (44) - Education (15) - Geography, toponymy, regional studies (32) - Ecology, ecological inventories, environment description (14) - Remote sensing, computer systems (58)
(57)	Permafrost, soils, periglacial features:	- Climatology, meteorology, effects of climatic phenomena (5) - Geomorphology and Quaternary (34) - Coastal zones and shores (6) - Engineering, construction and materials, architecture (18) - Terrain disturbance (75) - Remote sensing, computer systems (58)

(56) Petroleum and natural gas (exploration, development, technology, associated impacts):
- Oil spills (all issues) (54)
- Transport, transportation systems, ice breakers and technology (67)
- Geology, geophysics, physics and related issues (33)
- Ice, icebergs, ice scours (40)
- Conservation, regulation (9)
- Remote sensing, computer systems (58)

(58) Remote sensing, computer systems:
- Climatology, meteorology, effects of climatic phenomena (5)
- Geology, geophysics, physics and related issues (33)
- Ice, icebergs, ice scours (40)
- Oceanography (physical) (53)
- Oil spills (all issues) (54)

(59) Renewable resources (general):
- Native wildlife harvesting (51)
- Fisheries (27)
- Hydroelectricity (38)
- Forest exploitation (all issues) (29)
- Tourism, sport hunting and fishing, leisure activities, cultural services (66)
- Conservation, regulation (9)

(61) Site rehabilitation, mitigation:
- Conservation, regulation (9)
- Environment, pollution (general), impact assessment, techniques (19)
- Waste and waste water (disposal and treatment) (70)
- Acidification, acid precipitation (1)
- Oil spills (all issues) (54)
- Terrain disturbance (75)
- Underwater noise, industrial noise (68)

(62) Snow:
- Climatology, meteorology, effects of climatic phenomena (5)
- Ice, icebergs, ice scours (40)
- Glaciology (35)
- Hydrology, hydrography, hydraulics, physico-chemical limnology (39)
- Transport, transportation systems ice breakers and technology (67)
- Engineering, construction and materials, architecture (18)
- Remote sensing, computer systems (58)
- Ceomorphology and Quaternary (34)

(63)	Social, socio-economic issues - evolution:	- Community development (8) - Economy and economic development (13) - Native people and organizations (50) - Culture, arts, languages, religion - evolution (11)
(64)	Sovereighty, defense, international policies:	- Circumpolar issues (4) - Government (organizations, policies...) (36) - Justice, law, folk law, constitutional law (42)
(75)	Terrain disturbance:	- Agriculture, annual husbandry (2) - Hydroelectricity (38) - Minerals (exploration, development, technology, wastes, impacts) (48) - Petroleum and natural gas (exploration, development, technology, associated impacts) (56) - Forest exploitation (all issues) (29) - Transport, transportation systems, ice breakers and technology (67) - Engineering, construction and materials, architecture (18) - Environment, pollution (general), impact assessment, techniques (19) - Oil spills (all issues) (54) - Conservation, regulation (9)
(65)	Terrestrial ecosystems:	- Ecology, ecological inventories, environment description (14) - Invertebrates, micro-organisms (benthos, plankton...) (41) - Fauna: terrestrial (24) - Fauna: general (vertebrates) (26) - Forests (28) - Vegetation, botany, flora (69) - Geomorphology and Quaternary (34)
(66)	Tourism, sport hunting and fishing, leisure activities, cultural services:	- Native wildlife harvesting (51) - Fauna: fishes (22) - Fisheries (27) - Fauna: terrestrial (24) - Renewable resources (general) (59) - Cooperatives, small businesses, supply services, public services (10) - Conservation, regulation (19)

(67) Transport, transportation systems, ice breakers and technology:
- Climatology, meteorology, effects of climatic phenomena (5)
- Ice, icebergs, ice scours (40)
- Cooperatives, small businesses, supply services, public services (10)
- Engineering, construction and materials, architecture (18)
- Environment, pollution (general) impact assessment, techniques (19)
- Communications (7)
- Geomorphology and Quaternary (34)

(68) Underwater noise, industrial noise:
- Transport, transportation systems, ice breakers and technology (67)
- Petroleum and natural gas (exploration, development, technology, associated impacts) (56)
- Engineering, construction and materials, architecture (18)
- Environment, pollution (general), impact assessment, techniques (19)
- Conservation, regulation (9)

(69) Vegetation, botany, flora:
- Forests (28)
- Forest fires, toundra fires (30)
- Ecology, ecological inventories, environment description (14)
- Terrestrial ecosystems (65)
- Forest exploitation (all issues) (29)
- Renewable resources (general) (59)
- Remote sensing, computer systems (58)

(70) Waste and waste water (disposal and treatment):
- Environment, pollution (general), impact assessment, techniques (19)
- Cooperatives, small businesses, supply services, public services (10)
- Minerals (exploration, development, technology, wastes, impacts) (48)
- Petroleum and natural gas (exploration, development, technology, associated impacts) (56)
- Oil spills (all issues) (54)
- Conservation, regulation (9)

(71) Wild animal husbandry:
- Agriculture, animal husbandry (2)
- Economy and economic development (13)

ANNEXE A

LISTE DES RENVOIS

(1)	Acidification, précipitations acides:	- Environnement, pollution (général), évaluation des impacts, techniques (19) - Climatologie, météorologie, effets des phénomènes climatiques (5)
(73)	Adaptation au froid:	- Médecine, physiologie humaine, santé publique (46) - Climatologie, météorologie, effets des phénomènes climatiques (5)
(4)	Affaires circumpolaires:	- Souveraineté, défense, politique internationale (64)
(2)	Agriculture, élevage:	- Élevage d'animaux sauvages (71) - Pergélisol, sols, phénomènes périglaciaires (57) - Adaptation au froid (73)
(3)	Archéologie, préhistoire:	- Histoire (37) - Culture, arts, langues, religion - évolution (11) - Autochtones et organisations autochtones (50)
(63)	Aspects sociaux et socio-économiques - évolution:	- Développement communautaire (8) - Économie et développement économique (13) - Autochtones et organisations autochtones (50) - Culture, arts, langues, religion - évolution (11)
(50)	Autochtones et organisations autochtones:	- Développement communautaire (8) - Récolte autochtone (51) - Justice, loi, droit coutumier, droit constitutionnel (42) - Revendications territoriales, ententes, traités (43)
(5)	Climatologie, météorologie, effets des phénomènes climatiques:	- Acidification, précipitations acides (1) - Pergélisol, sols, phénomènes périglaciaires (57) - Neige (62) - Glaces, icebergs, affouillements glaciels (40) - Glaciologie (35)

		- Hydrologie, hydrographie, hydraulique, limnologie physico-chimique (39) - Télédétection, systèmes informatisés (58)
(7)	Communications:	- Ingénierie, construction et matériaux, architecture (18) - Transports, systèmes de transport, brise-glaces et leur technologie (67) - Médecine, physiologie humaine, santé publique (46)
(9)	Conservation, réglementation:	- Utilisation et gestion des terres, aménagement du territoire, développement régional (44) - Parcs, réserves de la biosphère et écologiques (55) - Restauration de sites, mitigation (61)
(10)	Coopératives, petites entreprises, approvisionnement, services publics:	- Aspects sociaux et socio-économiques - évolution (63) - Développement communautaire (8) - Économie et développement économique (13)
(11)	Culture, arts, langues, religion - évolution:	- Archéologie, préhistoire (3) - Histoire (37) - Aspects sociaux et socio-économiques - évolution (63)
(70)	Déchets et eaux usées (entreposage et traitement...):	- Environnement, pollution (général), évaluation des impacts, techniques (19) - Coopératives, petites entreprises, approvisionnement, services publics (10) - Minéraux (exploration, développement, technologie, résidus, impacts) (48) - Pétrole et gaz naturel (exploration, développement, technologie, impacts associés) (56) - Déversement de pétrole (tous les aspects) (54) - Conservation, réglementation (9)
(12)	Démographie:	- Autochtones et organisations autochtones (50) - Histoire (37) - Archéologie, préhistoire (3)

(8)	Développement communautaire:	- Aspects sociaux et socio-économiques - évolution (63) - Coopératives, petites entreprises, approvisionnement, services publics (10) - Culture, arts, langues, religion - evolution (11)
(54)	Déversement de pétrole (tous les aspects):	- Pétrole et gaz naturel (exploration, développement, technologie, impacts associés) (56) - Glaces, icebergs, affouillements glaciels (40) - Conservation, réglementation (9)
(14)	Écologie, inventaires écologiques, description de l'environnement:	- Géographie, toponymie, études régionales (32) - Environnement, pollution (général), évaluation des impacts, techniques (19) - Télédétection, systèmes informatisés (58)
(13)	Économie et développement économique:	- Aspects sociaux et socio-économiques - évolution (63) - Développement communautaire (8) - Coopératives, petites entreprises, approvisionnement, services publics (10)
(31)	Écosystèmes d'eau douce:	- Écosystèmes estuariens (20) - Faune ichtyenne (22) - Faune semi-aquatique et mammifères d'eau douce (25) - Invertébrés, micro-organismes (benthos, plancton...) (41)
(20)	Écosystèmes estuariens:	- Écosystèmes d'eau douce (31) - Écosystèmes marins (45) - Écologie, inventaires écologiques, description de l'environnement (14) - Invertébrés, micro-organismes (benthos, plancton...) (41)
(45)	Écosystèmes marins:	- Écosystèmes estuariens (20) - Faune: mammifères marins (23) - Océanographie (physique) (53) - Glaces, icebergs, affouillements glaciels (40) - Invertébrés, micro-organismes (benthos, plancton...) (41)

(65)	Écosystèmes terrestres:	- Écologie, inventaires écologiques, description de l'environnement (14) - Invertébrés, micro-organismes (benthos, plancton...) (41) - Faune terrestre (24) - Faune: général (vertébrés) (26) - Forêts (28) - Végétation, botanique, flore (69) - Géomorphologie et Quaternaire (34)
(15)	Éducation:	- Emploi et formation (16) - Recherche nordique, méthodologies, bibliographies (52) - Culture, arts, langues, religion - évolution (11)
(71)	Élevage d'animaux sauvages:	- Agriculture, élevage (2) - Économie et développement économique (13)
(16)	Emploi et formation:	- Éducation (15) - Recherche nordique, méthodologies, bibliographies (52) - Aspects sociaux et socio-économiques - évolution (63)
(17)	Énergie (général):	- Conservation, réglementation (9) - Exploitation forestière (tous les aspects) (29) - Végétation, botanique, flore (69)
(19)	Environnement, pollution (général), évaluation des impacts, techniques:	- Minéraux (exploration, développement, technologie, résidus, impacts) (48) - Pétrole et gaz naturel (exploration, développement, technologie, impacts associés) (56) - Acidification, précipitations acides (1) - Déversement de pétrole (tous les aspects) (54) - Modification du sol (75) - Déchets et eaux usées (entreposage et traitement...) (70) - Pollution sous-marine par le bruit, bruits industriels (68) - Restauration de sites, mitigation (61) - Conservation, réglementation (9) - Télédétection, systèmes informatisés (58)

(29) Exploitation forestière (tous les aspects):
- Forêts (28)
- Ressources renouvelables (général) (59)
- Végétation, botanique, flore (69)
- Feux de forêt, feux de toundra (30)
- Énergie (général) (17)
- Télédétection, systèmes informatisés (58)

(21) Faune avienne:
- Faune: général (vertébrés) (26)
- Faune semi-aquatique et mammifères d'eau douce (25)
- Écologie, inventaires écologiques, description de l'environnement (14)

(26) Faune: général (vertébrés):
- Faune ichtyenne (22)
- Faune avienne (21)
- Faune: mammifères marins (23)
- Faune semi-aquatique et mammifères d'eau douce (25)
- Faune terrestre (24)
- Écologie, inventaires écologiques, description de l'environnement (14)
- Écosystèmes d'eau douce (31)
- Écosystèmes estuariens (20)
- Écosystèmes marins (45)
- Écosystèmes terrestres (65)
- Récolte autochtone (51)
- Tourisme, chasse et pêche sportives, loisirs, services culturels (66)

(22) Faune ichtyenne:
- Faune: général (vertébrés) (26)
- Pêcheries (27)
- Tourisme, chasse et pêche sportives, loisirs, services culturels (66)
- Récolte autochtone (51)
- Écologie, inventaires écologiques, description de l'environnement (14)
- Écosystèmes d'eau douce (31)
- Écosystèmes estuariens (20)
- Écosystèmes marins (45)

(23) Faune: mammifères marins:
- Faune: général (vertébrés) (26)
- Écosystèmes marins (45)
- Écologie, inventaires écologiques, description de l'environnement (14)

(25) Faune semi-aquatique et mammifères d'eau-douce:
- Faune: général (vertébrés) (26)
- Écosystèmes d'eau douce (31)
- Écologie, inventaires écologiques, description de l'environnement (14)
- Écosystèmes terrestres (65)
- Récolte autochtone (51)

(24) Faune terrestre:
- Faune: général (vertébrés) (26)
- Invertébrés, micro-organismes (benthos, plancton...) (41)
- Écosystèmes terrestres (65)
- Écologie, inventaires écologiques, description de l'environnement (14)
- Récolte autochtone (51)
- Tourisme, chasse et pêche sportives, loisirs, services culturels (66)
- Élevage d'animaux sauvages (71)

(30) Feux de forêt, feux de toundra:
- Forêts (28)
- Exploitation forestière (tous les aspects) (29)
- Végétation, botanique, flore (69)
- Télédétection, systèmes informatisés (58)

(28) Forêts:
- Exploitation forestière (tous les aspects) (29)
- Végétation, botanique, flore (69)
- Feux de forêt, feux de toundra (30)
- Ressources renouvelables (général) (59)
- Télédétection, systèmes informatisés (58)

(32) Géographie, toponymie, études régionales:
- Écologie, inventaires écologiques, description de l'environnement (14)
- Utilisation et gestion des terres, aménagement du territoire, développement régional (44)
- Recherche nordique, méthodologies, bibliographies (52)

(33) Géologie, géophysique, physique et sujets connexes:
- Géomorphologie et Quaternaire (34)
- Minéraux (exploration, développement, technologie, résidus, impacts) (48)
- Pétrole et gaz naturel (exploration développement, technologie, impacts associés) (56)
- Télédétection, systèmes informatisés (58)

(34) Géomorphologie et Quaternaire:
- Géologie, géophysique, physique et sujets connexes (33)
- Géographie, toponymie, études régionales (32)
- Zones côtières et rivages (6)
- Pergélisol, sols, phénomènes périglaciaires (57)
- Neige (62)
- Glaces, icebergs, affouillements glaciels (40)
- Glaciologie (35)
- Hydrologie, hydrographie, hydraulique, limnologie physico-chimique (39)
- Océanographie (physique) (53)
- Climatologie, météorologie, effets des phénomènes climatiques (5)
- Végétation, botanique, flore (69)
- Écologie, inventaires écologiques, description de l'environnement (14)
- Télédétection, systèmes informatisés (58)

(40) Glaces, icebergs, affouillements glaciels:
- Climatologie, météorologie, effets des phénomènes climatiques (5)
- Géomorphologie et Quaternaire (34)
- Neige (62)
- Glaciologie (35)
- Hydrologie, hydrographie, hydraulique, limnologie physico-chimique (39)
- Télédétection, systèmes informatisés (58)
- Transports, systèmes de transport, brise-glaces et leur technologie (67)
- Ingénierie, construction et matériaux, architecture (18)

(35) Glaciologie:
- Climatologie, météorologie, effets des phénomènes climatiques (5)
- Géomorphologie et Quaternaire (34)
- Neige (62)
- Glaces, icebergs, affouillements glaciels (40)
- Hydrologie, hydrographie, hydraulique, limnologie physico-chimique (39)
- Ingénierie, construction et matériaux, architecture (18)

(36) Gouvernement (organisations, politiques...):
- Souveraineté, défense, politique internationale (64)
- Autochtones et organisations autochtones (50)
- Conservation, réglementation (9)

(37)	Histoire:	- Archéologie, préhistoire (3) - Culture, arts, langues, religion - évolution (11) - Aspects sociaux et socio-économiques - évolution (63) - Démographie (12)
(38)	Hydroélectricité:	- Ressources renouvelables (général) (59) - Hydrologie, hydrographie, hydraulique, limnologie physico-chimique (39) - Énergie (général) (17)
(39)	Hydrologie, hydrographie, hydraulique, limnologie physico-chimique:	- Climatologie, météorologie, effets des phénomènes climatiques (5) - Écosystèmes d'eau douce (31) - Géomorphologie et Quaternaire (34) - Glaces, icebergs, affouillements glaciels (40) - Déchets et eaux usées (entreposage et traitement...) (70)
(18)	Ingénierie, construction et matériaux, architecture:	- Minéraux (exploration, développement, technologie, résidus, impacts) (48) - Pétrole et gaz naturel (développement, technologie, impacts associés) (56) - Transports, systèmes de transport, brise-glaces et leur technologie (67) - Communications (7) - Hydroélectricité (38) - Énergie (général) (17) - Télédétection, systèmes informatisés (58)
(74)	Insectes piqueurs, démoustication:	- Invertébrés, micro-organismes (benthos, plancton...) (41) - Végétation, botanique, flore (69)
(41)	Invertébrés, micro-organismes (benthos, plancton...):	- Écosystèmes d'eau douce (31) - Écosystèmes estuariens (20) - Écosystèmes marins (45) - Écosystèmes terrestres (65) - Écologie, inventaires écologiques, description de l'environnement (14) - Hydrologie, hydrographie, hydraulique, limnologie physico-chimique (39) - Insectes piqueurs, démoustication (74)

(42)	Justice, loi, droit coutumier, droit constitutionnel:	- Revendications territoriales, ententes, traités (43) - Gouvernement (organisations, politiques...) (36) - Conservation, réglementation (9) - Culture, arts, langues, religion - évolution (11)
(46)	Médecine, physiologie humaine, santé publique:	- Adaptation au froid (73) - Insectes piqueurs, démoustication (74) - Mercure (47) - Environnement, pollution (général), évaluation des impacts, techniques (19)
(47)	Mercure:	- Médecine, physiologie humaine, santé publique (46) - Environnement, pollution (général), évaluation des impacts, techniques (19) - Minéraux (exploration, développement, technologie, résidus, impacts) (48)
(48)	Minéraux (exploration, développement, technologie, résidus, impacts):	- Environnement, pollution (général), évaluation des impacts, techniques (19) - Mercure (47) - Géologie, géophysique, physique et sujets connexes (33)
(75)	Modification du sol:	- Agriculture, élevage (2) - Hydroélectricité (38) - Minéraux (exploration, développement, technologie, résidus, impacts) (48) - Pétrole et gaz naturel (exploration, développement, technologie, impacts associés) (56) - Exploitation forestière (tous les aspects) (29) - Transports, systèmes de transport, brise-glaces et leur technologie (67) - Ingénierie, construction et matériaux, architecture (18) - Environnement, pollution (général), évaluation des impacts, techniques (19) - Déversement de pétrole (tous les aspects) (54) - Conservation, réglementation (9)
(62)	Neige:	- Climatologie, météorologie, effets des phénomènes climatiques (5) - Glaces, icebergs, affouillements glaciels (40)

		- Glaciologie (35) - Hydrologie, hydrographie, hydraulique, limnologie physico-chimique (39) - Transports, systèmes de transport, brise-glaces et leur technologie (67) - Ingénierie, construction et matériaux, architecture (18) - Télédétection, systèmes informatisés (58) - Géomorphologie et Quaternaire (34)
(53)	Océanographie (physique):	- Écosystèmes marins (45) - Climatologie, météorologie, effets des phénomènes climatiques (5) - Géomorphologie et Quaternaire (34) - Glaces, icebergs, affouillements glaciels (40) - Transports, systèmes de transport, brise-glaces et leur technologie (67) - Télédétection, systèmes informatisés (58)
(55)	Parcs, réserves de la biosphère et écologiques:	- Conservation, réglementation (9) - Utilisation et gestion des terres, aménagement du territoire, développement régional (44) - Éducation (15) - Géographie, toponymie, études régionales (32) - Écologie, inventaires écologiques, description de l'environnement (14) - Télédétection, systèmes informatisés (58)
(27)	Pêcheries:	- Faune ichtyenne (22) - Faune: général (vertébrés) (26) - Récolte autochtone (51) - Tourisme, chasse et pêche sportives, loisirs, services culturels (66) - Ressources renouvelables (général) (59) - Écosystèmes d'eau douce (31) - Écosystèmes estuariens (20) - Écosystèmes marins (45)
(57)	Pergélisol, sols, phénomènes périglaciaires:	- Climatologie, météorologie, effets des phénomènes climatiques (5) - Géomorphologie et Quaternaire (34) - Zones côtières et rivages (6) - Ingénierie, construction et matériaux, architecture (18)

- Modification du sol (75)
- Télédétection, systèmes informatisés (58)

(56) Pétrole et gaz naturel (exploration, développement, technologie, impacts associés):
- Déversement de pétrole (tous les aspects) (54)
- Transports, systèmes de transport, brise-glaces et leur technologie (67)
- Géologie, géophysique, physique et sujets connexes (33)
- Glaces, icebergs, affouillements glaciels (40)
- Conservation, réglementation (9)
- Télédétection, systèmes informatisés (58)

(68) Pollution sous-marine par le bruit, bruits industriels:
- Transports, systèmes de transport, brise-glaces et leur technologie (67)
- Pétrole et gaz naturel (exploration, développement, technologie, impacts associés) (56)
- Ingénierie, construction et matériaux, architecture (18)
- Environnement, pollution (général), évaluation des impacts, techniques (19)
- Conservation, réglementation (9)

(52) Recherche nordique, méthodologies, bibliographies:
- Éducation (15)
- Utilisation et gestion des terres, aménagement du territoire, développement régional (44)
- Emploi et formation (16)
- Écologie, inventaires écologiques, description de l'environnement (14)
- Géographie, toponymie, études régionales (32)

(51) Récolte autochtone:
- Autochtones et organisations autochtones (50)
- Culture, arts, langues, religion - évolution (11)
- Ressources renouvelables (général) (59)
- Revendications territoriales, ententes, traités (43)

(59) Ressources renouvelables (général):
- Récolte autochtone (51)
- Pêcheries (27)
- Hydroélectricité (38)
- Exploitation forestière (tous les aspects) (29)

- Tourisme, chasse et pêche sportives, loisirs, services culturels (66)
- Conservation, réglementation (9)

(61) Restauration de sites, mitigation:
- Conservation, réglementation (9)
- Environnement, pollution (général), évaluation des impacts, techniques (19)
- Déchets et eaux usées (entreposage et traitement...) (70)
- Acidification, précipitations acides (1)
- Déversement de pétrole (tous les aspects) (54)
- Modification du sol (75)
- Pollution sous-marine par le bruit, bruits industriels (68)

(43) Revendications territoriales, ententes, traités:
- Justice, loi, droit coutumier, droit constitutionnel (42)
- Gouvernement (organisations, politiques...) (36)
- Autochtones et organisations autochtones (50)
- Histoire (37)
- Récolte autochtone (51)

(64) Souveraineté, défense, politique internationale:
- Affaires circumpolaires (4)
- Gouvernement (organisations, politiques...) (36)
- Justice, loi, droit coutumier, droit constitutionnel (42)

(49) Surveillance (général):
- Environnement, pollution (général), évaluation des impacts, techniques (19)
- Utilisation et gestion des terres, aménagement du territoire, développement régional (44)
- Télédétection, systèmes informatisés (58)
- Conservation, réglementation (9)
- Restauration de sites, mitigation (61)

(58) Télédétection, systèmes informatisés:
- Climatologie, météorologie, effets des phénomènes climatiques (5)
- Géologie, géophysique, physique et sujets connexes (33)
- Glaces, icebergs, affouillements glaciels (40)
- Océanographie (physique) (53)
- Déversement de pétrole (tous les aspects) (54)

(66)	Tourisme, chasse et pêche sportives, loisirs, services culturels:	- Récolte autochtone (51) - Faune ichtyenne (22) - Pêcheries (27) - Faune terrestre (24) - Ressources renouvelables (général) (59) - Coopératives, petites entreprises, approvisionnement, services publics (10) - Environnement, pollution (général), évaluation des impacts, techniques (19)
(67)	Transports, systèmes de transport, brise-glaces et leur technologie:	- Climatologie, météorologie, effets des phénomènes climatiques (5) - Glaces, icebergs, affouillements glaciels (40) - Coopératives, petites entreprises, approvisionnement, services publics (10) - Ingénierie, construction et matériaux, architecture (18) - Environnement, pollution (général), évaluation des impacts, techniques (19) - Communications (7) - Géomorphologie et Quaternaire (34)
(44)	Utilisation et gestion des terres, aménagement du territoire, développement régional:	- Surveillance (général) (49) - Conservation, réglementation (9) - Géographie, toponymie, études régionales (32) - Écologie, inventaires écologiques, description de l'environnement (14)
(69)	Végétation, botanique, flore:	- Forêts (28) - Feux de forêt, feux de toundra (30) - Écologie, inventaires écologiques, description de l'environnement (14) - Écosystèmes terrestres (65) - Exploitation forestière (tous les aspects) (29) - Ressources renouvelables (général) (59) - Télédétection, systèmes informatisés (58)
(6)	Zones côtières et rivages:	- Géomorphologie et Quaternaire (34) - Glaces, icebergs, affouillements glaciels(40) - Télédétection, systèmes informatisés (58)

APPENDIX B / ANNEXE B

LIST OF ACRONYMS / LISTE DES ACRONYMES

AC	:	Agriculture Canada
ACF	:	Atkinson Charitable Foundation
AECB/	:	Atomic Energy Control Board
CCEA	:	Commission de contrôle de l'énergie atomique
BRF	:	Banting Research Foundation
CC/	:	The Canada Council
CAC	:	Conseil des Arts du Canada
CCAC/	:	Consumers and Corporate Affairs Canada
CCC	:	Consommation et Corporations Canada
CD/	:	Communications Department
MC	:	Ministère des Communications
CIDA/	:	Canadian International Development Agency
ACDI	:	Agence canadienne de développement international
CMHC/	:	Canada Mortgage and Housing Corporation
SCHL	:	Société centrale d'hypothèque et de logement
CNIB/	:	Canadian National Institute for the Blind
INCA	:	L'Institut national canadien pour les aveugles
CTC/	:	Canadian Transport Commission
CCT	:	Commission canadienne des transports
DFE/	:	Department of Fisheries and the Environment
MPE	:	Ministère des Pêches et de l'Environnement
DFO/	:	Department of Fisheries and Oceans
MPO	:	Ministère des Pêches et Océans
DMI/	:	Department of Manpower and Immigration
MMI	:	Ministère de la Main-d'oeuvre et de l'Immigration
DRB/	:	Defense Research Board
CRD	:	Conseil de recherches pour la défense
EAC/	:	External Affairs Canada
AEC	:	Affaires extérieures Canada

EC	:	Environment Canada Environnement Canada
EMRC	:	Energy, Mines and Resources Canada
	:	Énergie, Mines et Ressources Canada
HF/	:	Heart Foundation
FMC	:	Les Fondations des maladies du coeur
HSCF	:	Hospital for Sick Children Foundation
HWC/	:	Health and Welfare Canada
SBSC	:	Santé et Bien-être social Canada
IDRC/	:	International Development Research Centre
CRDI	:	Centre de recherches pour le développement international
IJC/	:	International Joint Commission
CMI	:	Commission mixte internationale
INAC/	:	Indian and Northern Affairs Canada
AINC	:	Affaires indiennes et du Nord Canada
ITC/	:	Industry, Trade and Commerce
IC	:	Industrie et Commerce
JC	:	Justice Canada
LC/	:	Labour Canada
TC	:	Travail Canada
LRCC/	:	Law Reform Commission of Canada
CRDC	:	Commission de réforme du droit du Canada
MDAC	:	Muscular Dystrophy Association of Canada
ACDM	:	L'Association canadienne de la dystrophie musculaire
MRCC/	:	Medical Research Council of Canada
CRMC	:	Conseil de recherches médicales du Canada
MST	:	Ministry of State for Science and Technology Ministère d'État aux Sciences et à la Technologie
NATO/	:	North Atlantic Treaty Organization
OTAN	:	Organisation du traité de l'Atlantique nord
NCC/	:	National Capital Commission
CCN	:	Commission de la capitale nationale

NDD/ MDN	:	National Defence Department Ministère de la Défense nationale
NEB/ ONE	:	National Energy Board Office national de l'Énergie
NLC/ BNC	:	National Library of Canada Bibliothèque nationale du Canada
NMC/ MNC	:	National Museums of Canada Musées nationaux du Canada
NRCC/ CNRC	:	National Research Council Canada Conseil national de recherches Canada
NSERCC/ CRNSGC	:	National Science and Engineering Research Council of Canada Conseil de recherches en sciences naturelles et en génie du Canada
PAC/ APC	:	Public Archives Canada Archives publiques du Canada
PCO/ BCP	:	Privy Council Office Bureau du Conseil privé
PWC/ TPC	:	Public Work Canada Travaux publics Canada
RC	:	Revenue Canada Revenu Canada
RCORMD/ CRENOR	:	Royal Commission on the Ocean Ranger Marine Disaster Commission royale d'enquête sur le naufrage de l'Ocean Ranger
REE/ EER	:	Regional Economic Expansion Expansion économique régionale
SC	:	Statistics Canada Statistique Canada
SGC	:	Solicitor General Canada Solliciteur général Canada
SSD/ MSD	:	Secretary of State Department Ministère du Secrétariat d'État
SSC/ ASC	:	Supply and Services Canada Approvisionnement et Services Canada

SSHRCC/	:	Social Services and Humanities Research Council of Canada
CRSHC	:	Conseil de recherche en sciences humaines du Canada
STC	:	Science and Technology Canada
	:	Sciences et Technologie Canada
TC	:	Transport Canada
	:	Transports Canada
VAC/	:	Veterans Affair. Canada
AACC	:	Affaires des Anciens combattants Canada

APPENDIX C / ANNEXE C

MAIN SECTION CONTAINING 5718 REFERENCES
CLASSIFIED UNDER 75 THEMES

LISTE DE 5718 RÉFÉRENCES
REGROUPÉES SOUS 75 THÈMES

Note:
*: Also in theme 100 (Nouveau-Québec/Labrador)/
Aussi au thème 100 (Nouveau-Québec/Labrador)

ACIDIFICATION, ACID PRECIPITATION / ACIDIFICATION, PRÉCIPITATIONS ACIDES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Delisle, C.E. Dep. de Génie civil École Polytechnique	NSERCC/ CRSNGC	Caractérisation et effets écologiques des précipitations sur le nord Québecois.	1980-81	5,500		1*
ESSA Environmental and Social Systems Analysts Limited Vancouver, B.C.	SSC/ASC DFO/MPO	Modelling workshop on status of lakes and fisheries potentially impacted by Long Range Transport of Atmospheric Pollutants.	1982	33,618	(B.109)	1
Harvey, H.H. Dept. of Zoology Univ. of Toronto	SSC/ASC EC	Impact of acid precipitation on fish hatchery. operations.	1983	5,000	(B.127)	1
Hoenger, J.F.M. Dept. of Microbiology Univ. of Toronto	SSC/ASC NRCC/CNRC	The effects of acidification on bacteria of Canadian Shield Lakes.	1983	25,595	(B.126)	1
Hutchinson, T.C. Dept. of Biology Univ. of Toronto	NRCC/CNRC NSERCC/ CRSNGC	Effects of heavy metals and acid precipitations interactions on terrestrial and aquatic ecosystems junction in the Sudbury region and the Western Arctic.	1977-78 1978-79 1979-80	34,000 31,800 31,913		1
Hutchinson, T.C. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Detector analyser and teletype (for neutron activation analysis with the slowpoke nuclear-facility).	1979-80	31,734		1
Hutchinson, T.C. Dept. of Biology Univ. of Toronto	NSERCC/ CRSNGC	Plant responses to extremes of acid and toxic metal stresses at Sudbury and the Smoking Hills, N.W.T.	1980-81 1981-82 1982-83	52,000 57,200 66,066		1
Hutchinson, T.C. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Ion chromatograph and accessories.	1981-82	34,494		1
Hutchinson, T.C. Dept. of Biology Univ. of Toronto	NSERCC/ CRSNGC	Multiple-metal tolerances and co-tolerances in grasses and algae.	1979-80 1980-81 1981-82	37,850 45,934 52,940		1

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Jones, K.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Further characterize acid stress in arctic char using behavioural parameters.	1983	24,500	(B.123)	1
Lechowicz, M.J. Dept. of Biology McGill Univ.	SSC/ASC EC	Study the effects of acid precipitation on productivity of the principal caribou forage lichens.	1981	36,503	(B.101)	1*
Lechowicz, M.J. Dept. of Biology McGill Univ.	NSERCC/ CRSNGC	Effects of acid precipitation on the productivity of caribou lichens.	1980-81 1981-82 1982-83	22,470 30,524 34,223		1*
Lechowicz, M.J. Dept. of Biology McGill Univ.	EC	Solute leaching from lichens by acid precipitation.	1981-82	3,000		1*
Moore, T.R. Dept. of Geography McGill Univ.	EC	The impact of acidic precipitation deposition on the subarctic soils of eastern Canada.	1981-82 1982-83	3,000 5,000		1*
Singh, B. Dép. de Géographie Univ. de Montréal	EC	L'occurence et la distribution spatiale et temporelle de la pluie (ou neige) acide provenants des transferts atmosphériques dans le moyen Nord du Québec.	1979-80 1980-81	5,000 5,000		1*
Wood, C.M. Dept. of Biology McMaster Univ.	DFO/MPO	Development of an index of chronic acid stress in freshwater fish based on total carbonate levels in tissue and bone.	1979-80 1980-81	6,000 6,000		1

AGRICULTURE, ANIMAL HUSBANDRY / AGRICULTURE, ÉLEVAGE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Beliveau, N. Fac. de Pharmacie Univ. de Montréal	SSC/ASC AC	Études des méthodes d'extractions pour la standardisation d'huiles essentielles de la région boréale du Québec.	1983	90,000	(B.124)	2*
Bushuk, W. et al. Dept. of Plant Science Univ. of Manitoba	NSERCC/ CRSNGC	Improvement of crop productivity in short season-cool temperature regions.	1979-80 1980-81 1981-82	130,000 142,700 158,990		2
Gallagher, G. Centre de recherche du Moyen-Nord Univ. du Québec à Chicoutimi	SSC/ASC AC	L'utilisation d'eau rejetée industrielle comme une source pour cultiver des légumes en hiver - phase III.	1981	321,500	(B.104)	2
Gray, D.M., Male, D.H. and Norum, D.I. Dept. of Agriculture Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	The role of snow in agricultural production.	1983-84	80,000		2
Lady Davis Research Institute Montreal, Que.	SSC/ASC AC	Study on the adaptation of legume nitrogen fixation to the Arctic environment.	1981	38,205	(B.96)	2
Lady Davis Research Institute Montreal, Que.	SSC/ASC AC	Field research on adaptation of legume nitrogen fixation to the Arctic environment - part of Agriculture Canada's Nitrogen Fixation Program.	1982	41,949	(B.111)	2
Pocatec Limitee La Pocatiere, Que.	SSC/ASC AC	Mise au point d'un prototype de séchoir solaire pour le traitement de la tourbe horticole.	1981	74,660	(B.96)	2
Rank, G.H. Dept. of Biology Univ. of Saskatchewan	NSERCC/ CRSNGC	Breeding of leafcutter bees for alfalfa pollination at low temperatures.	1979-80 1980-81 1981-82	15,000 16,470 18,345		2

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Rennie, D.A. Institute of Pedology Univ. of Saskatchewan	SSC/ASC AC	Inventory and interpretation of the soil and land resource along the lower Liard River valley, Northwest Territories.	1975	66,000	(B.28)	2
Rennie, D.A. Dept. of Soil Science Univ. of Saskatchewan	SSC/ASC INAC/AINC	Inventory of agricultural and grazing capability of the soil and land resources in portions of the Yukon Territory and along the Hay River, Northwest Territories.	1976	114,967	(B.44)	2
Schulman, H.M. Lady Davis Institute for Medical Research Montréal, Qué.	SSC/ASC AC	Legume nitrogen fixation of the Arctic plants laboratory studies.	1982	96,472	(B.112)	2
Vander-kloet, S.P. Dept. of Biology Acadia Univ.	AC	Evaluation of high bush blueberry germ plasm collected from a variety of habitats in the northern extremities of its range.	1979-80	2,000		2

ARCHEOLOGY, PREHISTORY / ARCHÉOLOGIE, PRÉHISTOIRE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Arnold, C.D. Univ. of Toronto	SSHRCC/ CRSHC	Banks Island archaeological research project, Northwest Territories.	1979-80 1980-81 1981-82	21,264 878 45,142	3
Carlson, R.L. Simon Fraser Univ.	SSHRCC/ CRSHC	Participating in the Pacific Science Congress; Comparative Archaeology of Canada and Siberia (Khabarovsk, Novosibirsk, Moscow).	1979-80	-	3
Hickerson, H. Dept. of Anthropology Simon Fraser Univ.	CC/CAC	Ethnohistorical research into Pre-European.	1974-75	4,962	3
Hickey, C. Univ. of Alberta	SSHRCC/ CRSHC	Intensive survey for nineteenth century copper Inuit sites, Banks Island, Northwest Territories.	1980-81	9,329	3
Hickey, C. Univ. of Alberta	SSHRCC/ CRSHC	Archaeological and historical investigations of nineteenth century copper Inuit culture.	1981-82	26,804	3
Irving, W.C. Dept. of Anthropology Univ. of Toronto	INAC/AINC	Assessment of archaeological and palaeontological significance of Northern Yukon area of interest.	1978-79	2,000	3
Lee, T.E. Dep. d'Archeologie Univ. Laval	CC/CAC	Investigation of probable Norse remains in Ungava.	1974-75	9,150	3*
Linnamae, U. Dept. of Archaeology Univ. of Saskatchewan	CC/CAC	Archaeological survey and excavations in the Rankin Inlet area of western Hudson Bay.	1975-76	5,031	3
Linnamae, U. Dept. of Archaeology Univ. of Saskatchewan	CC/CAC	Rankin Inlet archaeology project.	1976-77	9,665	3
Mary-Rousselière, G. Chercheur autonome	SSHRCC/ CRSHC	Etude des sites dorsetiens du Navy Board Inlet (Nord Baffin).	1978-79 1979-80 1980-81 1981-82	8,480 2,740 1,350 3,000	3

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Plumet, P., et al. Univ. du Québec à Montréal et Univ. de Montréal	CC/CAC	Types préhistoriques d'habitat en Ungava, des points de vue archéologique, ethnohistorique, paléogéographique et paléoécologique.	1975-76 1976-77 1977-78	127,732 141,457 130,021	3*
Plumet, P., et al. Univ. du Québec à Montréal et Univ. de Montréal	SSHRCC/ CRSHC	Les modes d'établissement préhistoriques en Ungava.	1978-79 1979-80 1980-81	163,101 176,371 25,000	3*
Ramsden, P. McMaster Univ.	SSHRCC/ CRSHC	Archaeological survey of Prince of Wales Island, Northwest Territories.	1980-81	9,365	3
Ramsden, P. McMaster Univ.	SSHRCC/ CRSHC	Prehistory of Prince of Wales Island, Northwest Territories.	1982-83	16,338	3
Robitaille, B. Centre d'Études nordiques Univ. Laval	INAC/AINC	Research of the Eskimo population in Northern Quebec and the N.W.T. before 1610.	1978-79	9,194	3*
Robitaille, B. Centre d'Études nordiques Univ. Laval	INAC/AINC	Le peuplement esquimau (Inuit) le long de la frontière Québec-Territoires du Nord-Quest.	1980-81	12,000	3*
Savelle, J. Univ. of Ottawa	INAC/AINC	Research on archaeological sites in Yukon Territory and the Northwest Territories.	1975-76	600	3
Schledermann, P. Dept. of Archaeology Univ. of Calgary	INAC/AINC	Rédaction chapitre d'un livre - Parc national de Baffin.	1974-75	2,800	3
Schledermann, P. Dept. of Archaeology Univ. of Calgary	CC/CAC	Archeology: The prehistoric of northern Banks Island, Northwest Territories: and the cultural and economic competition between the Thule culture Inuit and the Norse settlers in West Greenland, ca. 1350 A.D.	1975-76	13,342	3
Schledermann, P. Dept. of Archaeology Univ. of Calgary	CC/CAC	The prehistory of northern Banks Island, Northwest Territories.	1975-76	9,755	3
Schledermann, P. Dept. of Archaeology Univ. of Calgary	CC/CAC	Archeology Prehistoric cultural developments in the Bache Peninsula region, eastern Ellesmere Island, Northwest Territories.	1977-78	24,716	3
Schledermann, P. Dept. of Archaeology Univ. of Calgary	SSHRCC/ CRSHC	Archaeological research in the Bache Peninsula region, Ellesmere Island, Northwest Territories.	1980-81 1981-82	33,087 28,707	3

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Shay, C.T. Univ. of Manitoba	SSHRCC/ CRSHC	Late prehistoric stone technology in northwestern Manitoba: excavation and analysis.	1978-79	7,806	3
Sutherland, P. McMaster Univ.	SSHRCC/ CRSHC	Archaeology of Northern Ellesmere Island, Northwest Territories.	1979-80	5,384	3
Sutherland, P. McMaster Univ.	SSHRCC/ CRSHC	Archaeology of Northern Ellesmere and Eastern Axel Heiberg Island.	1981-82	14,036	3
Univ. of Calgary	CC/CAC	Conference on the prehistory of the North American Subarctic and the Athapaskan people.	1976-77	3,000	3
Vastokas, R.K. Dept. of Anthropology and Archaeology Trent Univ.	CC/CAC	Conservation, chronology and style analysis of rock art in the Canadian shield region.	1974-75	1,788	3
Vyvyan, R.P. Dept. of Anthropology Univ. of Manitoba	INAC/AINC	Physical anthropological assessment Gray Site - near Swift Current.	1977-78	1,450	3
Williamson, R.G. Dept. of Anthropology and Archaeology Univ. of Saskatchewan	INAC/AINC	Consulting service of Mr. Ingmar Egede, Greenland.	1980-81	1,500	3

CIRCUMPOLAR ISSUES / AFFAIRES CIRCUMPOLAIRES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Arctic Institute of North America (The) Montreal, Que.	CC/CAC	Seminar on Alaskan-Canadian relationships.	1975-76	3,000	4
Circumpolar Conference on Northern Ecology Ottawa - Sept. 1975, Ont.	NRCC/CNRC	Conference Grants/Subventions pour conférences.	1974-75	6,100	4
Circumpolar Conference on Northern Ecology Ottawa - Sept. 1975, Ont.	NRCC/CNRC	Conference Grants/Subventions pour conférences.	1975-76	11,075	4

CLIMATOLOGY, METEOROLOGY, EFFECTS OF CLIMATIC PHENOMENA / CLIMATOLOGIE, MÉTÉOROLOGIE, EFFETS DES PHÉNOMÈNES CLIMATIQUES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Acres Consulting Services Limited Niagara Falls, Ont.	SSC/ASC EC	Past climatic change in the Canadian Arctic.	1983	24,408	(B.128)	5
Alt, B. Ottawa, Ont.	SSC/ASC EMRC	Collection of meteorological data in in the Queen Elizabeth Islands of the Arctic Archipelago during the 1977 field season.	1977	3,000	(B.51)	5
Alt, B. Ottawa, Ont.	SSC/ASC DFE/MPE	Provision of nonstandard weather observations from the Arctic.	1977	2,788	(B.53)	5
Arctic Institute of North America (The) Montreal, Que.	SSC/ASC EC	Winter climatological observations in Kluane National Park Area.	1974	1,250	(B.10)	5
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC EC	Development of a computerized system for prediction of weather dependent environmental conditions in the Beaufort Sea.	1975	63,451	(B.27)	5
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC EC	Inprovements to the data access system used for weather prediction in the Beaufort Sea.	1975	8,035	(B.31)	5
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC EC	Modification and testing of the Beaufort Sea Meteorological Model.	1976	2,963	(B.39)	5
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC NDD/MDN	Study of surface winds in the region surrounding Resolute and Barrow Strait, Northwest Territories.	1977	9,984	(B.46)	5
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC DFE/MPE	Generation of an eastern Arctic historical data access system (Eastern Arctic Hisdas) and initial testing of selected prediction modules with data contained in the system.	1977	17,689	(B.52)	5

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC DFE/MPE	Development of a technique for calculating winds, interface temperatures and snowfall rates near water bodies.	1979	42,671	(B.72)	5
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC DFO/MPO	Feasibility study of the influence of Hudson/James Bay water bodies on local and global climate.	1980	6,560	(B.90)	5*
Atmospheric Dynamics Corporation Victoria, B.C.	SSC/ASC DFO/MPO	Study of severe storms in the Beaufort Sea for Tuktoyaktuk flood delineation project.	1983	7,578	(B.124)	5
Atmospheric Dynamics Corporation Victoria, B.C.	SSC/ASC DFO/MPO	Determination of optimum method of computing geostrophic winds in Parry Channel.	1983	5,052	(B.127)	5
Bertin, L. Toronto, Ont.	SSC/ASC EC	Preparation of an overview report on the meteorological and oceanographic aspects of the Beaufort Sea project.	1975	9,125	(B.29)	5
Bondy, D.A. Willowdale, Ont.	SSC/ASC EC	Co-ordination of the Atmospheric Environment Service (AES) James Bay program for investigation into land use and to undertake a study of synoptic climatology of the James Bay and Northern Quebec regions.	1974	3,211	(B.10)	5*
Bristol Aerospace Limited Winnipeg, Man.	SSC/ASC EC	Design and development of a meteorological data acquisition system for the Beaufort Sea Project.	1974	84,050	(B.19)	5
Bristol Aerospace Limited Winnipeg, Man.	SSC/ASC EC	Amendment to a contract for design and development of a meteorological data acquisition system for the Beaufort Sea Project to include improvements in packaging design, a support structure which will float yet remain stable during summer ice melt, and spare modules adaptable for other uses.	1975	37,967	(B.25)	5
Charlton, R.B. Dept. of Geography Univ. of Alberta	EC	Cooling towers, ice fog and Northern development.	1978/79	2,000		5
Collin, G.J. et Phan, L.C. Université du Quebec a Chicoutimi	NSERCC/ CRSNGC	Recherche relative au givrage des lignes de transport d'energie.	1980-81	26,200		5*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO / NO
Concord Scientific Corporation Downsview, Ont.	SSC/ASC EC	Implementation of the Canadian Air and Precipitation Monitoring Network.	1982	270,599	(B.113)	5
Courtin, G.M. Dept. of Biology Laurentian Univ. of Sudbury	EC	Microclimatological investigations in the Canadian High Arctic.	1977-78	2,000		5
Dames and Moore Consulting Engineers Toronto, Ont.	SSC/ASC EC	Development of a hindcast of storm waves for the Beaufort Sea using meteorological data.	1975	10,900	(B.26)	5
Davenport, A.C. Dept. of Engineering Sciences Univ. of Western Ontario	EC	Studies of the effects of wind and snow pertinent to building design.	1976-77	6,000		5
De Krasinski, J.S. Dept. of Mechanical Engineering Univ. of Calgary	NRCC/CNRC	1) A study of a very short radial diffuser in compressible operation at low noise levels. 2) A study of aerodynamics flow around buildings buildings and terrestrial conditions including effects of temperature inversion.	1975-76 1976-77 1977-78	6,825 7,000 7,598		5
Eley, F.J. Winnipeg, Man.	SSC/ASC EC	Collection and analysis of meteorological data for the assessment of the agricultural climate of southern portions of the Northwest and Yukon Territories.	1975	21,900	(B.26)	5
Eley, F.J. Leduc, Alta.	SSC/ASC EC	Assessment of the agricultural climate of southern portions of the Northwest and Yukon territories.	1976	25,000	(B.37)	5
Godard, R. Toronto, Ont.	SSC/ASC EC	Testing of Release II element prediction modules for the Beaufort Sea computerized weather prediction support system.	1975	14,530	(B.29)	5
Gray, J. Dept. of Physics Univ. of Alberta	NSERCC/ CRSNGC	The use of stable insotope ratios of organic materials in determining past climate variations.	1982-83	10,500		5

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Gray, J.T. Dép. de Géographie Univ. de Montréal	SSC/ASC EMRC	Extraction et compilation des données de température et de précipitations nivales accessibles dans la péninsule d'Ungava pour les besoins d'une simulation géothermique des paléoclimats du Quaternaire.	1983	3,620	(B.121)	5*
Gregory, J.B. Dept. of Physics Univ. of Saskatchewan	NSERCC/ CRSNGC	Global circulation of upper atmosphere.	1982-83	8,000		5
Hage, K.D. Dept. of Geography Univ. of Alberta	EC	The climatology and meteorology of an High Arctic oasis.	1981-82	6,000		5
Hage, K.D. Dept. of Geography Univ. of Alberta	EC	Meteorology and climatology of High Arctic oasis.	1982-83	5,000		5
Hare, F.K. Dept. of Geography Univ. of Toronto	NSERCC/ CRSNGC	Coupled modelling of climate. ocean and cryosphere.	1982-83 1983-84	15,000 15,900		5
Hipel, K.W. Dept. of Systems Design Engineering Univ. of Waterloo	SSC/ASC DFE/MPE	Analysis of hydrometeorological data from the Canadian Arctic using advanced statistical procedures.	1978	11,200	(B.60)	5
Hydrocon Engineering Continental Limited Calgary, Alta.	SSC/ASC EC	Study of an integrated hydro-meteorological network design - Mackenzie River.	1980	26,460	(B.92)	5
Inkster, B.L. Ottawa, Ont.	SSC/ASC EC	Provision of nonstandard 1979 weather observations from the Arctic Archipelago.	1980	2,890	(B.89)	5
Interact Computing Services Limited Sidney, B.C.	SSC/ASC DFO/MPO	Investigation of structure of storms and frontal systems over the North-east Pacific Ocean.	1981	9,024	(B.105)	5
Jacobs, J.D. Dept. of Geography Univ. of Windsor	NRCC/CNRC NSERCC/ CRSNGC	Topoclimates of the eastern Baffin Island coast.	1977-78 1978-79	3,500 4,000		5

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Kershaw, K.A. Dept. of Biology McMaster Univ.	EC	The relation between the microclimate of subarctic plant systems and water conservation.	1974-75	11,000		5
Khandekar, M.L. Edmonton, Alta.	SSC/ASC EC	Development of specific weather-element prediction algorithms as part of the Beaufort Sea Sub-Project E-1.	1975	33,500	(B.22)	5
Lagarec, D. Dept. de Géographie Univ. d'Ottawa	NSERCC/ CRSNGC	Etude climatique de la vallée Gladstone, Yukon	1981-82	6,000		5
Lagarec, D. Dép. de Géographie Univ. d'Ottawa	NSERCC/ CRSNGC	Etude climatique et paléoclimatique, Vallée de Gladstone, Yukon.	1982-83	7,000		5
LeDrew, E.F. Dept. of Geography Univ. of Waterloo	NSERCC/ CRSNGC	Significance of local heat sources on the dynamic climatology of the Beauford Sea Region.	1983-84	11,660		5
LeDrew, E.F. et al. Dept. of Geography Univ. of Waterloo	NSERCC/ CRSNGC	Maintenance and technical support for an image analysis facility.	1983-84	26,500		5
Lozowski, E.P. Dept. of Geography Univ. of Alberta	NSERCC/ CRSNGC	Helicopter icing.	1978-79 1979-80	9,000 9,000		5
Lozowsky, E.P. Dept. of Geography Univ. of Alberta	NSERCC/ CRSNGC	Aircraft icing.	1980-81 1981-82 1982-83	10,500 11,550 13,340		5
Lozowski, E.P. Dept. of Meteorology Univ. of Alberta	NSERCC/ CRSNGC	Simulation modelling of aircraft icing.	1983-84	18,444		5
Luckman, B.H. Dept. of Geography Univ. of Western Ontario	EMRC	Oxygen isotope and tree-ring densitometric estimates of paleotemperature during the Hypsithermal interval in the Middle Canadian Rockies.	1982-83	2,600		5

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
MacDonald, Dettwiler and Associates Limited Richmond, B.C.	SSC/ASC DFE/MPE	Antenna installation and operator training for the prototype NOAA/VHRR weather satellite ground station providing weather imagery coverage of Western Canada.	1977	21,607	(B.56)	5
Morrow, M. Edmonton, Alta.	SSC/ASC EC	Further development of a historical Beaufort Sea meteorological data access system.	1975	10,800	(B.28)	5
Morrow, M. Downsview, Ont.	SSC/ASC EC	Further development of a historical Beaufort Sea meteorological data access system and the development of a historical data access system for Ontario.	1976	4,050	(B.41)	5
Muller, F. Fac. of Graduate Studies and Research McGill Univ.	SSC/ASC EC	Continuation of a research study of the glacio-climatology of the North Water	1974	29,004	(B.18)	5
P.G.F. Services Limited St. Albert, Alta.	SSC/ASC EC	Design plan and output specifications for an Arctic marine forecast system.	1983	12,451	(B.106)	5
Phan, L.C. Dep. des Sciences appliquées Univ. du Québec à Chicoutimi	NSERCC/ CRSNGC	Microscope à faible grossissement et à lumière polarisee pour l'analyse de la structure des échantillons de verglas et de givre.	1978-79	8,000		5*
Phan, L.C. Dep. des Sciences appliquées Univ. du Québec à Chicoutimi	NSERCC/ CRSNGC	Système de cinématographie à haute vitesse.	1980-81	22,000		5*
Phan, L.C. Dep. des Sciences appliquées Univ. du Québec à Chicoutimi	NSERCC/ CRSNGC	Granulometre optique pour mesure du spectre dimensionnel des gouttelettes d'eau.	1981-82	33,696		5*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Phan, L.C., Laforte, J.L. et McComber, P. Dép. des Sciences appliques Univ. du Quebec à Chicoutimi	NSERCC/ CRSNGC	Recherche relative au givrage des lignes de transport d'énergie.	1981-82 1982-83	37,800 30,000	5*
Phan, L.C., Laforte, J.L. et McComber, P. Dép. de Sciences appliquées Univ. du Québec à Cumberlin	NSERCC/ CRSNGC	Influence des conditions atmosphériques sur le transport d'énergie.	1982-83	30,000	5*
Phan, L.C., McComber, P. et Laforte, J.L. Dép. des Sciences appliquées Univ. du Québec à Chicoutimi	NSERCC/ CRSNGC	Recherche relative au givrage des lignes de transport d'énergie.	1981-82 1982-83 1983-84	25,100 28,991 30,730	5*
Phan, L.C., McComber, P. Laforte, J.L. Dep. des Sciences appliquées Univ. du Québec à Chicoutimi	NSERCC/ CRSNGC	Soufflerie réfrigérée permettant la simulation du givre et du verglas.	1982-83 1983-84	13,900 14,734	5*
Phan, L.C. et al. Dep. des Sciences appliquées Univ. du Quebec à Chicoutimi	NSERCC/ CRSNGC	Formation de glace (verglas et givre) sur les lignes de transmission et études des moyens de prévention.	1978-79 1979-80 1980-81	14,441 14,946 16,411	5*
Reinelt, E.R. Dept. of Geography Univ. of Alberta	EC	Formation and distribution of cloud in the Canadian Arctic.	1974/75	3,300	5
Rouse, W.R. Dept. of Geography McMaster Univ.	NRCC/CNRC	Radiation heat and water budgets of high latitude surfaces. Radiation and temperature in polluted urban atmospheres.	1976-77 1977-78	10,000 10,840	5

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Rouse, W.R. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Energy and water budger studies in the tundra and subarctic.	1978-79 1979-80 1980-81 1981-82	15,800 16,353 17,956 20,000		5
Rouse, W.R. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Climatic impact of Hudson Bay on coastal tundra - energy and water balance studies in the low Arctic.	1983-84	5,300		5
Schuepp, P.H. Dept. of Agricultural Chemistry and Physics Macdonald College	NRCC/CNRC	Micrometeorological model experiments and applications to subarctic climates.	1974-75 1975-76 1976-77 1977-78	6,900 7,800 8,000 8,672		5
Schuepp, P.H. Dept. of Agricultural Chemistry and Physics Macdonald College	NRCC/CNRC NSERCC/ CRSNGC	Micrometeorological model experiments.	1978-79 1979-80 1980-81 1981-82 1983-84	8,500 8,798 9,660 11,000 13,467		5
Seaconsult Marine Research Limited Vancouver, B.C.	SSC/ASC DFO/MPO	Development of procedures for presenting wave spectral climatology and estimating the importance to offshore operations.	1982	23,882	(B.109)	5
Singh, B. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Études à long terme de quelques aspects de l'hydrométéorologie et la microclimatologie de la région de la Baie James, Québec.	1981-82	9,500		5*
Singh, B. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	The ground thermal regime in the Hudson-James-Bay area, Nouveau-Québec, as related to snow cover and energy exchanges at the surface.	1983-84	8,480		5*
Smith, M.W. Dept. of Geography Carleton Univ.	SSC/ASC INAC/AINC	Numerical simulation of microclimatic and active layer regimes in a High Arctic environment.	1975 1976-77	23,439 16,168	(B.25)	5
Steltner Development and Manufacturing Company Limited Pond Inlet, N.W.T.	SSC/ASC NRCC/CNRC	Multi-year ice sampling and temperature measurements at Borden Station - March 1983.	1983	4,072	(B.121)	5

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Taylor Alt, B. Ottawa, Ontario	SSC/ASC EMRC	Ascertain the role of past synoptic wheather patterns in paleoclimatic change in the Queen Elizabeth Islands.	1978	33,000	(B.56)	5
Taylor Alt, B. Ottawa, Ontario	SSC/ASC EMRC	Collection of meteorological data in the Queen Elizabeth Islands of the Arctic archipelago during the 1978 field season.	1978 1979 1980	3,000 3,000 3,000	(B.60) (B.73) (B.84)	5
Thompson, H.A. Islington, Ont.	SSC/ASC EC	Review of a climatological publication on the Canadian Arctic Islands.	1976	8,000	(B.42)	5
Thompson, R.D. Dept. of Geography Guelph Univ.	EC	Studies of the energy balance of the polar desert Bathurst Island (75 degree N.) and the winter snow pack in the Guelph area.	1974-75	3,500		5
Toonoonik-Sahoonik Co-op Pond Inlet, N.W.T.	SSC/ASC DFE/MPE	Provision of weather observing and reporting services, telecommunication services for the community airport and the maintenance of Atmospheric Environment Service's weather station located at Pond Inlet, Northwest Territories.	1977 1979 1981 1981 1983	149,760 206,145 36,440 257,212 273,490	(B.46) (B.72) (B.98) (B.100) (B.125)	5
West Baffin Eskimo Co-operative Limited Cape Dorset, N.W.T.	SSC/ASC DFE/MPE	Weather observing and reporting services and the maintenance of Atmospheric Environment Services weather station located at Cape Dorset, NWT.	1977	99,611	(B.49)	5
West Baffin Eskimo Co-operative Limited Cape Dorset, N.W.T.	SSC/ASC EC	Provision of weather observing and reporting services, the provision of telecommunication services for the community airport and the maintenance of Atmospheric Environment Service's weather station located at Cape Dorset, Northwest Territories.	1979 1981 1983	131,284 130,920 178,225	(B.74) (B.97) (B.122)	5
W.F. Baird and Associates Coastal Engineers Limited Ottawa, Ont.	SSC/ASC DFO/MPO	Participation in a wave climate study for the Royal Commission on the Ocean Ranger Marine Disaster.	1983	56,607	(B.127)	5
Wilson, C.V. Ottawa, Ont.	SSC/ASC EC	Report on the east coast of Hudson Bay: Climatic indices for the summer seasons 1800 - 1900.	1983	15,350	(B.127)	5*

COASTAL ZONES AND SHORES / ZONES CÔTIÈRES ET RIVAGES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Allard, M. Dép. de Géographie Univ. Laval	NSERCC/ CRSNGC	Géomorphlogie littorale et processus périglaciaires côtiers.	1980-81	6,780		6*
Allard, M. Dép. de Géographie Univ. Laval	NSERCC/ CRSNGC	Les environnements côtiers de l'Hudsonie.	1982-83 1983-84	10,000 10,600		6*
Allard, M., Dionne, J.-C et Tremblay, G. Dep. de Géographie Univ. Laval	NSERCC/ CRSNGC	Géomorphologie littorale et périglaciaire.	1981-82 1982-83 1983-84	18,000 18,000 14,500		6*
Barrie and Associates Ottawa, Ontario	SSC/ASC EMRC	Mapping of the physical character of the Arctic Coastal Zone to provide baseline environmental knowledge for transportation, development and transportation interests in the map area outlined.	1982	3,475	(B.108)	6
Beak Consultants Limited Calgary, Alta	SSC/ASC EMRC	Coastal reconnaissance study of Ellef Ringnes, King Christian, Cameron and Bathurst Islands in the Queen Elizabeth Islands.	1976	85,447	(B.42)	6
Beak Consultants Limited Calgary, Alta.	SSC/ASC EMRC	Report on the coastal environment of Banks Island.	1978	6,602	(B.58)	6
Beak Consultants Limited Calgary, Alta.	SSC/ASC EMRC	Preparation of a report entitled "The Coast of Banks Island, Northwest Territories, Beach Processes and Sediment Characteristics".	1980	2,000	(B.85)	6
Bonn, F.J. Dubois, J.M. et Gwyn, Q.H.J. Dep. de Geographie Univ. de Sherbrooke	NSERCC/ CRSNGC	Développement de méthodologies d'interpretation quantitative des images de télédétection et géomorphologie continentale et littorale.	1983-84	30,000		6*
Corbett, B.W. Winnipeg, Man.	SSC/ASC DFO/MPO	Analyze data collected during a study of a coastal lagoon along the Tuktoyaktuk Peninsula.	1981	4,200	(B.105)	6

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
ESL Environmental Sciences Limited Vancouver, B.C.	SSC/ASC DFO/MPO	Assessment of environmental reviews and data reports for the west coast and Beaufort Sea.	1982	5,961	(B.112)	6
Geomarine Associates Limited Halifax, N.S.	SSC/ASC EMRC	Compilation of Arctic coastal photo atlas and report information.	1979	3,000	(B.72)	6
Laviolette Engineering Limited Edmonton, Alta.	SSC/ASC TC	Examination of bank erosion at the Canadian coast guard base at Hay River, Northwest Territory.	1979	9,743	(B.70)	6
McCann, S.B. Dept. of Geography McMaster Univ.	NRCC/CNRC	1) Beach and nearshore environments in the Eastern Arctic archipelago. 2) Barrier Islands and sand spits in the Southern Gulf of St. Lawrence.	1974-75 1975-76 1976-77	8,400 9,580 9,828		6
McCann, S.B. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Morphology, sediments and dynamics of the the shore zone.	1982-83 1983-84	34,500 31,800		6
McCann, S.B. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Field work in Queen Elizabeth Islands.	1983-84	9,549		6
R.M. Hardy and Associates Limited Calgary, Alta.	SSC/ASC INAC/AINC	Assessment of granular and rock material sources along the Yukon Coastal Plain and adjacent areas.	1976	194,000	(B.43)	6
Tessier, C. Dep. de Chimie-biologie Univ. du Québec à Trois-Rivières	NSERCC/ CRSNGC	Dynamique de milieux riverains.	1982-83	9,000		6
Tessier, C. Dep. de Chimie - biologie Univ. du Quebec a Trois-Rivières	NSERCC/ CRSNGC	Dynamisme des milieux riverains.	1983-84	7,420		6*
Thalassic Data Limited Vancouver, B.C.	SSC/ASC EC	Organize and conduct a beach walk and analyze samples in the Beaufort Sea area.	1975	15,289	(B.27)	6

COMMUNICATIONS / COMMUNICATIONS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Alberta Native Communications Society Edmonton, Alta.	SSC/ASC CD/MC	Study and report on the feasibility of conducting satellite communications experiments in native communities in northern Alberta.	1974	19,300	(B.14)	7
Alberta Native Communications Society Edmonton, Alta.	SSC/ASC INAC/AINC	Investigation of the interactive communication with native people in Northern Alberta through the use of the communications technology satellite - Project - Iron Star.	1977	242,520	(B.49)	7
Bell-Northern Research Limited Ottawa, Ont.	SSC/ASC CD/MC	Study to define a basic telemedicine system for the University of Western Ontario,s telemedicine experiment with the communications technology satellite (CTS).	1976	24,000	(B.37)	7
Bell-Northern Research Limited Ottawa, Ont.	SSC/ASC CD/MC	Implementation of a telecommunications system for use with the communications technology satellite for a telemedicine experiment at the University of Western Ontario.	1976	9,000	(B.40)	7
Bell-Northern Research Limited Ottawa, Ont.	SSC/ASC CD/MC	Assembly, testing, delivery and evaluation of an experimental telecommunications system for use with the communications technology satellite for telemedicine purposes.	1976	192,425	(B.43)	7
Bristol Aerospace Limited Winnipeg, Man.	SSC/ASC EC	Beaufort Sea instrumentation communications study.	1974	3,600	(B.12)	7
Carey, L.S. Dept. of Diagnostic Radiology Univ. of Western Ontario	SSC/ASC CD/MC	Research study covering statistics related to a tele-medicine satellite project at Moose Factory, James Bay area.	1974	10,000	(B.17)	7
Fulford, J.A. Centre for Radio Science, Physical Sciences Univ. of Western Ontario	SSC/ASC CD/MC	UHF and microwave phase measurements using DNA satellite in Polar CAP - phase III.	1978	61,897	(B.65)	7

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
House, A.M. Fac. of Medicine Memorial Univ. of Newfoundland	SSC/ASC CD/MC	Continuation of detailed planning and instrument simulations for the telemedicine experiments with the communications technology satellite.	1976	44,753	(B.37)	7
House, A.M. Fac. of Medicine Memorial Univ. of Newfoundland	CD/MC	Hermes Telemedicine Experiment p-1.	1977-78	40,000		7
House, A.M. Fac. of Medicine Memorial Univ. of Newfoundland	SSC/ASC CD/MC	Feasibility study of aggregating potential ANIK-B pilot project interests in Eastern Canada in the areas of health, education, government administration and economic services.	1978	12,000	(B.59)	7*
House, A.M. and McNamara, W.C. Fac. of Medicine Memorial Univ. of Newfoundland	SSC/ASC CD/MC	Research on the use of tele-communications in providing medical services to remote areas.	1975	15,000	(B.7)	7
House, M. and McNamara, W.C. Fac. of Medicine and Educational Television Centre Memorial Univ. of Newfoundland	SSC/ASC HWC/SBSC	Telemedicine teleconference pilot project in Newfoundland.	1978	199,909	(B.69)	7
Koba, B. Univ. of Western Ontario	SSC/ASC CD/MC	Co-ordination of the administrative and site activities relative to the implementation of the Communications Technology Satellite Tele-Medicine Experiment U6.	1977	52,360	(B.46)	7
Marinav Corporation Ottawa, Ont.	SSC/ASC DFE/MPE	Provision of an experimental Accufix System for experimental use in the investigation of radio propagation over fresh water, tundra and Arctic sea ice.	1977	226,498	(B.48)	7
McNamara, W.C. and House, A.W. Educational Television Centre and Fac. of Medicine Memorial Univ. of Newfoundland	SSC/ASC CD/MC	Demonstration on the feasibility of using an interactive satellite system for the provision of continuing medical education to practising physicians in remote areas of Newfoundland and Labrador.	1976	124,408	(B.45)	7*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Middleton Associates Toronto, Ont.	SSC/ASC EMRC	Assessment and evaluation of the conventional and alternative generation systems as applied to remote communities.	1982	25,000	(B.108)	7
Miller Communications Systems Limited Kanata, Ont.	SSC/ASC CD/MC	Amendment to a contract for the study concerning remote terminal technology and cost trends to include an enlarged study to postulate a methodology and define the costs of improving telecommunications in the north.	1975	20,615	(B.33)	7
Mitel Corporation Canada Limited Kanata, Ont.	SSC/ASC EMRC	Pilot implementation program to demonstrate the feasibility of an integrated communications system for remote areas - Phase I.	1977	32,138	(B.53)	7
Ponfret, A. Institute of Research in Human Abilities Memorial Univ. of Newfoundland	SSC/ASC CD/MC	Evaluation of the telemedicine Communications Technology Satellite experiments.	1977	14,784	(B.46)	7
Ponfret, A. Institute of Research in Human Abilities Memorial Univ. of Newfoundland	SSC/ASC CD/MC	Evaluation of the Communications Technology Satellite Telemedicine experiments at Memorial University.	1977	22,153	(B.52)	7
Saladin d'Anglure, B. Dep. d'Anthropologie Univ. Laval	SSC/ASC CD/MC	Recherche sur la transmission du savoir et télécommunication chez les Inuits.	1974	15,000	(B.15)	7*
Sinclair Radio Laboratories Limited Concord, Ont.	SSC/ASC CD/MC	Study to demonstrate the feasibility of implementing designs and construction of ruggedized HF antenna/housings for northern application.	1977	35,894	(B.49)	7
Spilsbury and Tindall Limited Vancouver, B.C.	SSC/ASC CD/MC	Development of a medium frequency/high frequency single sideband transceiver optimized for trail and remote camp use in the Canadian north.	1977	128,781	(B.48)	7
Spilsbury and Tindall Limited Vancouver, B.C.	SSC/ASC CD/MC	Development of a method of automatic frequency control of portable and low powered single side band transceivers for use in temperature extremes of the Canadian North.	1978	67,161	(B.64)	7

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Stolovitch, H.D. Fac. des Sciences de l'éducation Univ. de Montréal	SSC/ASC CD/MC	Conception et élaboration d'un modèle systématique de sélection pour lier harmonieusement les systèmes de télé-communications aux besoins de services communautaires.	1980	24,943	(B.91)	7
Tagramiut Nipingat Incorporated Sugluk, Que.	SSC/ASC INAC/AINC	Development of a system of communications to integrate the Inuit culture in northern Quebec using Hermes and Anik "A" satellites (Project Naalakvik).	1978	247,703	(B.64)	7*
Tagramiut Nipingat Incorporated Sugluk, Que.	SSC/ASC INAC/AINC	Perform experiments with the use of satellite facilities to introduce television programming, testing, assessment and production in Inuit communities in Northern Quebec.	1979	918,000	(B.76)	7*
Tagramiut Nipingat Incorporated Salluit, Que.	SSC/ASC CD/MC	Development of a telidon based communication model for application in Northern communities.	1982	55,025	(B.117)	7*
Telesat Canada Ottawa, Ont.	SSC/ASC NDD/MDN	A satellite space diversity propagation experiment at Eureka, Northwest Territories, to determine reliable communications between Eureka and Ottawa.	1976	249,000	(B.37)	7
Telesat Canada Ottawa, Ontario	SSC/ASC CD/MC	Study of the use of Anik-C for direct-to-home and community television distribution services.	1980	45,275	(B.89)	7
Tunaley, J.K.E. Centre for Radio Science Univ. of Western Ontario	SSC/ASC CD/MC	UHF (Ultra High Frequency) and microwave phase measurements using DNA satellite in the Polar Cap -- phase IV.	1979	19,833	(B.76)	7
Vervoort, G. Dept. of Mathematical Sciences Lakehead Univ.	SSC/ASC CD/MC	Study of the feasibility of using telewriter and satellite communications for the upgrading in both mathematics and mathematics education of elementary school teachers in remote regions.	1974	10,000	(B.19)	7
Walsh, J. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	SSC/ASC ND/DN	Examination of radio frequency propagation over the ocean surface in the VHF region.	1979	24,660	(B.73)	7

COMMUNITY DEVELOPMENT / DÉVELOPPEMENT COMMUNAUTAIRE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO

CONSERVATION, REGULATION / CONSERVATION, RÉGLEMENTATION

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Studies in connection with the updating of the structural requirements of the Arctic shipping pollution regulations, Groups I and II.	1980	228,390	(B.85)	9
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Studies updating the Arctic shipping pollution prevention regulations - ice data.	1982	9,764	(B.117)	9
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Updating the Arctic shipping pollution regulations, Group III.	1983	106,000	(B.121)	9
Canplan Oceanology Limited Halifax, N.S.	SSC/ASC EC	Formulation of environmental protection guidelines for offshore drilling, offshore gathering pipelines and ports.	1976	18,100	(B.34)	9
J.B. Sprague Associates Limited Guelph, Ont.	SSC/ASC EC	Consultation concerning the revision of the guidelines on the use and acceptability of oil spill dispersants.	1982	8,102	(B.111)	9
J.R. Eickmeier Engineering Limited Calgary, Alta.	SSC/ASC EMRC	Collaboration with the Energy Development Sector in the preparation of production regulations as specified under the Canada Oil and Gas Production and Conservation Act.	1974	30,000	(B.11)	9
Klohn Leonoff Limited Vancouver, B.C.	SCC/ASC EC	Assessment of guidelines for tailings disposal in Arctic regions.	1975	5,000	(B.26)	9
Maxwell, L.F. Burnaby, B.C.	SSC/ASC EC	Study of the institutional protection available for habitat in the Pacific and Yukon region.	1982	2,975	(B.111)	9
Onclin, K. Whitehorse, Y.T.	SSC/ASC DFO/MPO	Construction, operation and maintenance of the Trapper Lake salmon weir.	1983	30,380	(B.125)	9
Yukon Conservation Society Whitehorse, Y.T.	SSC/ASC EC	Organization, planning and implementation of Canadian Environment Week activities in the Yukon Territory.	1981	1,000	(B.104)	9

COOPERATIVES, SMALL BUSINESSES, SUPPLY SERVICES, PUBLIC SERVICES / COOPÉRATIVES, PETITES ENTREPRISES, APPROVISIONNEMENT, SERVICES PUBLICS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctec Canada Limited Calgary, Alta.	SSC/ASC TC	Study of supply of northern fuel to a polar ice-breaker.	1983	73,600	(B.118)	10
Gregory Research Limited Vancouver, B.C.	SSC/ASC INAC/AINC	Water use fee development schedule for the Northwest Territories and Yukon Territory.	1978	20,280	(B.61)	10
Hal Mills and Associates Halifax, N.S.	SSC/ASC EC	Provide a report on the implementation process for siting hydrocarbon facilities on the Arctic coast.	1983	19,950	(B.120)	10
Heinke, G.W. Islington, Ont.	SSC/ASC DFE/MPE	Technical assistance in the development of a Cold Climate Utilities Delivery Design Manual.	1978	4,000	(B.63)	10
Howard Paish and Associates Burnaby, B.C.	SSC/ASC DFO/MPO	Development of a cooperative resource management plan for the Pacific and Yukon region.	1982	1,995	(B.117)	10
Jenkins, J. Fac. of Business and Economics Wilfred Laurier Univ.	INAC/AINC	Preliminary study of government policy and practice with respect to the encouragement of small business enterprises among native peoples of the North.	1975/76	2,000		10
Sauer, S.A. Dept. of Geography Univ. of Western Ontario	EMRC	Map depositories in Northern Canada. A feasibility Study.	1978/79	2,800		10
Schwarz, A. Dep. de Sociologie Univ. Laval	INAC/AINC	To complete a study of co-operatives in Northern Quebec.	1975/76	6,400		10*
Smith, D.W. Anchorage, Alaska	SSC/ASC DFE/MPE	Development of a cold climate utilities delivery design manual.	1977	6,200	(B.53)	10
Smith, D.W. Anchorage, Alaska	SSC/ASC DFE/MPE	Direction and participation in the development of a cold climate utilities delivery design manual.	1978	4,000	(B.65)	10

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Stager, J.K. Fac. of Arts Univ. of British Columbia	INAC/AINC	Cooperative Development Program ("Evaluation Study of the Federated Cooperatives in Nouveau Quebec and the N.W.T. after the Cooperative Development Program").	1981-82	60,000	10*

CULTURE, ARTS, LANGUAGES, RELIGION - EVOLUTION / CULTURE, ARTS, LANGUES, RELIGION - ÉVOLUTION

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Arete Contemporary Mime Troupe Calgary	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1978-79	2,370	11
Akulukjuk, H. Pangnirtung, N.W.T.	CC/CAC	Visual Arts/Arts visuels.	1983-84	-	11
Alikatuktuk, T. Pangnirtung, N.W.T.	CC/CAC	Travel Grants: Visual Arts/Bourses de voyage: Arts visuels.	1978-79	100	11
Alison, R. Orillia	CC/CAC	Study of the conservation ethic of Canadian native peoples in relation to hunting, fishing, and trapping.	1983-84	4,910	11
Arima, E. Ottawa, Ont.	CC/CAC	Translate and edit a book of Inuit myths.	1981-82	9,700	11
Armstrong, B. Ketch Harbour	CC/CAC	Book on magic and illusions of Canadian Inuit and Indian conjurors.	1983-84	10,973	11
Ashoona, P. Cape Dorset, N.W.T.	CC/CAC	Senior Arts Grants/Bourses de travail libre.	1975-76	-	11
Atai Arctic Creative Development Foundation Eskimo Point, N.W.T.	CC/CAC	Explorations.	1980-81	7,806	11
Bairstow, D. Montreal	CC/CAC	15-minute, 16mm art film entitled Love from the Cold Country.	1976-77	15,000	11*
Batchelor, B.T. Whitehorse	CC/CAC	To travel by snowshoe, skis and dog team to record the experiences of people living in isolation.	1975-76	7,000	11
Baxter, I., Piktoukin, D. and Skudra, T. Toronto	CC/CAC	Travel costs to Paulatuk in the western Arctic where the artists - a photographer, a sculptor and a painter - will create individual and collective works for exhibition.	1983-84	6,000	11

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Bell, R.E. McGill Univ.	INAC/AINC	Grant to support research into the historical factors affecting food consumption patterns among Indian people in Northern Canada.	1978-79	5,400	11*
Berry, J.W. Dept. of Psychology Queen's Univ. at Kingston	SSHRCC/ CRSHC	Psychological and cultural impact of technological change in the North: the case of the James Bay Cree.	1978-79 1979-80	25,794 13,721	11*
Berry, J.W. Dept. of Psychology Queen's Univ. at Kingston	INAC/AINC	Proposal for a research project re: orientations of Canadians towards native peoples.	1981/82	1,500	11
Berry, J.W. and Wintrob, R.M. Queen's Univ. at Kingston and Univ. of Connecticut U.S.A.	CC/CAC	Psychology: Psychological and cultural impact of technological change on the North - the case of the James Bay Cree.	1975-76	12,000	11*
Bradley, M.E. Pelly Crossing, Y.T.	CC/CAC	Explorations.	1978-79	5,000	11
Brandon Univ.	SSHRCC/ CRSHC	Indians of the Northern Plains Collection.	1983-84	50,000	11
British Columbia and the Yukon	CC/CAC	National Book Festival/Festival national du livre.	1978-79	50,000	11
Brousseau, T. Terrace B.C.	CC/CAC	Explorations.	1978-79	6,499	11
Buckles, D. Dawson City, Yukon	CC/CAC	Explorations.	1978-79	3,000	11
Buckna, P. and Green, J. Fort Smith, N.W.T.	CC/CAC	Production of audiotape of poetry and music about life in the North.	1982-83	8,640	11
Burnaby, B.J. Fac. of Education Univ. of Toronto	INAC/AINC	Orthographies for native languages in Canada.	1982-83	2,000	11
Burns, M.A.E. Whitehorse	CC/CAC	To write a book about the feelings of immigrants representing some 15 nationalities in a small northwestern mining community.	1975-76	5,500	11
Calef, G. Whitehorse, Yukon	CC/CAC	Explorations.	1980-81	10,000	11

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Camerata Toronto	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1979-80	8,873	11
Canadian Brass Toronto	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1975-76	3,470	11
Canadian Puppet Festivals Chester, N.S.	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1975-76	22,864	11
Carcross Indian Band Carcross, Yukon	CC/CAC	Explorations.	1980-81	3,806	11
Carpentier, W.J. Yellowknife	CC/CAC	Explorations.	1975-76	6,600	11
Carter, A.L. Vancouver, B.C.	CC/CAC	Explorations.	1979-80	8,200	11
Cavanagh, B. Queen's Univ. at Kingston	SSHRCC/ CRSHC	Pilot project on Naskapi music/aspects of Iroquois music.	1982-83	28,090	11
Cercle du livre de France Montreal, Qué.	CC/CAC	Translation of Fred Bruemmer's The Arctic, by Michèle Tisseyre.	1975-76	3,000	11
Chandler, R.F. Dept. of Pharmacy Dalhousie, Univ.	MRCC/CRMC	Investigation of the medicinal aspects of maritime flora with particular emphasis on the traditional Micmac and Malecite medicines.	1978-79 1979-80 1980-81	17,100 17,613 28,000	11
Classical Duo of Montreal/Le Duo classique de Montreal	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1979-80	2,500	11
Committee for the Inuktitut Music Workshops Igloolik, N.W.T.	CC/CAC	Explorations.	1982-83	20,000	11
Cooke, L. Yellowknife, N.W.T.	CC/CAC	Dramatic television script about a Dene family.	1983-84	2,000	11
Cree Productions Calgary	CC/CAC	Native culture research.	1976-77	4,500	11

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Cross, K., Ellenton, S, and White K. Whitehorse, Yukon	CC/CAC	Concert tour and workshops for women artists who wish to develop music and performing skills.	1983-84	12,000	11
D.V.G. School and Faro Branch Library Faro, Yukon	CC/CAC	National Book Festival/Festival national du livre.	1982-83	-	11
Dawson City Drama Festival Dawson City, Yukon	CC/CAC	Workshops on acting and technical production.	1981-82	2,621	11
Dawson City Music Festival Dawson City, Yukon	CC/CAC	Festival Program/Programme Festival.	1982-83	9,923	11
Dawson City Drama Festival Dawson City, Yukon	CC/CAC	A workshop in theatre sports during the festival.	1983-84	1,415	11
Denny, P. Univ. of Western Ontario	SSHRCC/ CRSHC	Algonquian and Inuit spatial semantics.	1981-82	12,678	11
Dorais, L.-J. Dep. d'Anthopologie Univ. Laval	CC/CAC	Ethnolinguistique: Dialectes inuits de l'Arctique oriental canadien.	1974-75	13,450	11
Dorais, L.-J. Dep. d'Anthopologie Univ. Laval	CC/CAC	Le dialecte Iglulingmiut.	1975/76	9,070	11
Eber, D. Montreal, Que.	CC/CAC	Explorations.	1980-81	6,410	11
Editions Bellarmin (Raymond, L.-B.) Montréal	CC/CAC	Translation Grants/Subventions à la traduction: Skid Row, Eskimo, A.A. Thrasher.	1978-79	2,750	11
Editions Héritage (Scully, R.-G. et Plourde, M.) St-Lambert, Qué.	CC/CAC	Translation Grants/Subventions à la traduction: Poutoulik chez les Inuits de l'Ungava; Nicole Rich-Plumet.	1978-79	695	11*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Eeseemailie, A. Pangnirtung, N.W.T.	CC/CAC	Travel Grants: Visual Arts/Bourses de voyage: Arts visuels.	1983-84	-	11
Elliot, C. and Elliott, C. Calgary, Alta.	CC/CAC	Explorations.	1979-80	7,000	11
Ellis, C.D. Dept. of Linguistics McGill Univ.	CC/CAC	Cree grammar.	1977-78 1978-79	4,075 1,997	11*
Farrago Music Festival Faro, Yukon	CC/CAC	Festival Program/Programme Festival.	1982-83	12,000	11
Farrow, J. Frobisher Bay	CC/CAC	Explorations.	1980-81	10,430	11
Flin Flon Indian-Metis Friendship Association	CC/CAC	To complete the recording on film and tape of the arts, crafts and traditional activities of the Woodland Cree Indians.	1975-76	5,000	11
Ford, A. Univ. de Montréal	SSHRCC/ CRSHC	Description morphologique de mushuau innu.	1981-82	9,898	11*
Fournier, J.-P. Montréal	CC/CAC	Traduction de Strangers Devour the Land, de Boyce Richardson.	1976-77	9,600	11*
Francis, D. Ottawa, Ont.	CC/CAC	Explorations.	1977-78	4,700	11
Fraser and Friends Vancouver	CC/CAC	Touring Grants/Aide aux tournées de spectacle.	1979-80	7,843	11
Fraser, M. Whitehorse, Yukon	CC/CAC	Explorations.	1978-79	8,500	11
Friis-Baastad, E. Whitehorse, Y.T.	CC/CAC	Short Term Grants/Bourses de conte durée.	1975-76	-	11
Frostbite Music Society Whitehorse, Yukon	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1981-82	4,605	11
Frostbite Music Festival Whitehorse, Yukon	CC/CAC	Festival Program/Programme Festival.	1982-83	11,677	11

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Fumoleau, R. Yellowknife, Y.T.	CC/CAC	Salaire d'un chercheur rédacteur qui aidera le candidat à rédiger un livre sur les Denés.	1981-82	6,100	11
Furneaux, J.D. Hemmingford, Que.	CC/CAC	To travel to the Arctic to obtain biographical information on the Eskimos photographed by film maker Robert Flaherty, for the compilation of a book.	1975-76	1,260	11
Gaffin, J. Whitehorse	CC/CAC	Explorations.	1976-77	4,500	11
Gaston, A.-M. Private scholar	SSHRCC/ CRSHC	A comprehensive study of north Indian rhythms as played in the Pakhawj.	1981-82	9,875	11
Gély, G. Aylmer, Que.	CC/CAC	Compilation of a photographic and written record of changes in the lives of 10 Ennadai Lake artists.	1983-84	14,472	11
Georgia, Igloolik, N.W.T.	CC/CAC	Explorations.	1977-78	2,486	11
Giannelia, R. Whitehorse	CC/CAC	To establish a multi-media production centre based in the Yukon Regional Library for the use of local artists.	1974-75	5,000	11
Gibbons, R. Dept. of Political Science Univ. of Calgary	INAC/AINC	The impact of ethnicity, immigration and language on orientation towards Indians.	1977/78	5,275	11
Gibbons, R. Dept. of Political Science Univ. of Calgary	INAC/AINC	Canadian's opinions and attitudes towards Indians and Indian issues.	1977/78	1,500	11
Goldi, J.W. Yellowknife, N.W.T.	CC/CAC	Explorations.	1979-80	6,200	11
Goldi, J.W. Yellowknife, N.W.T.	CC/CAC	Production of a 20-minute children's film entitled "Raven's Gift".	1983-84	14,300	11
Goodfellow, R. North West River, Labrador	CC/CAC	Experimentation on use of caribou hair as fibre for clothing.	1983-84	2,800	11*
Goose, N. Holman Island, N.W.T.	CC/CAC	Travel Grants/Bourses de voyage.	1974-75	-	11

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Government of the Northwest Territories Yellowknife	CC/CAC	Crafts Program/Programme "Artisanat".	1976-77	4,589	11
Government of the Northwest Territories Yellowknife	CC/CAC	Mosaic Art Program/Programme "Mosaicart".	1976-77	3,442	11
Government of the Yukon Territory Whitehorse	CC/CAC	Crafts Program/Programme "Artisanat".	1976-77	8,567	11
Government of the Yukon Territory Whitehorse	CC/CAC	Reading by Purdy, A.	1976-77	839	11
Government of the Yukon Territory Whitehorse	CC/CAC	National Book Festival/Festival national du livre.	1980-81	-	11
Guild Hall Society (The) Whitehorse, Yukon	CC/CAC	Project manager and two guest directors for the Guild Hall, performing arts centre in the Yukon.	1982-83	15,600	11
Hamer, J. Dept. of Anthropology and Sociology Brandon Univ.	INAC/AINC	Effects of T.V. on Northern children.	1974-75	25,000	11
Hamer, J. Dept. of Anthropology and Sociology Brandon Univ.	INAC/AINC	The impact of television on native communities in the Canadian North.	1975-76	5,000	11
Harper, J.R. Fac. of Fine Arts Concordia Univ.	CC/CAC	English naval artists in the Arctic 1818-1876.	1977-78	7,757	11
Harper, K.E. Frobisher Bay, N.W.T.	CC/CAC	Explorations.	1978-79	9,423	11
Hatch, J. Whitehorse, Y.T.	CC/CAC	Explorations.	1979-80	8,300	11
Heidenreich, B.A. Nain, Nfld.	CC/CAC	Book of Labrador Inuit legends illustrated by Inuit artists.	1982-83	9,000	11*

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Holman Eskimo Holman, N.W.T.	CC/CAC	Book on Holman printmakers Kalvak and Emerak.	1982-83	5,000		11
Houston, A.G. Ottawa, Ont.	CC/CAC	Explorations.	1979-80	6,000		11
Houston, J.J. Ottawa, Ont.	CC/CAC	Explorations.	1979-80	2,750		11
Hudson, W. Cape Dorset, N.W.T.	CC/CAC	To build equipment for the production of Eskimo type to be used in the printing of Eskimo legends and folklore.	1974-75	10,000		11
Hunter, Z. Nain, Nfld.	CC/CAC	Books on Labrador Inuit lifeskills.	1981-82	3,821		11*
Hutchinson, R.C. Univ. of Toronto	SSHRCC/ CRSHC	"Project North" and the Mackenzie Valley pipeline debate: a case study in religious ethics.	1979-80 1981-82 1982-83	9,919 12,178 25,274		11
IBM Canada Limited Ottawa, Ont.	SSC/ASC INAC/AINC	Provision of syllabic typewriter typositors samples for the Eskimo language.	1976	29,470	(B.37)	11
IBM Canada Limited Ottawa, Ont.	SSC/ASC INAC/AINC	Developmental modifications to the syllabic typewriter element for the Eskimo language.	1977	11,985	(B.50)	11
Ice Bergs Musical Band Arctic Bay, Nfld.	CC/CAC	Explorations.	1976-77	2,256		11
Iksiraq, T. Baker Lake, N.W.T.	CC/CAC	Travel Grants/Bourses de voyage.	1975-76	-		11
Inuit Broadcasting Corporation Ottawa, Ont.	CC/CAC	Videotaping an Inuktitut television programming workshop.	1981-82	16,800		11
Inuit Cultural Institute and Association for Native Development in the Performing and Visual Arts Toronto, Ont.	CC/CAC	Identification, translation when needed, and development of resources useful to Inuit musicians such as an inventory, a touring network, an archive, etc.	1983-84	14,700		11

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Inuit Nipingat Radio Ottawa	CC/CAC	Production of six experimental cultural programs with Inuit performers.	1982-83	13,326	11
J.H. Sissons Elementary School Library Yellowknife	CC/CAC	National Book Festival/Festival national du livre.	1982-83	-	11
Janke, Y. Whitehorse, Yukon	CC/CAC	Establishment and rehearsal of New Northern Consort, musicians who will perform and improvise new music.	1983-84	6,043	11
Jim, N. Yellowknife	CC/CAC	Film: Potlatch in the Yukon.	1981-82	15,000	11
Johnson, M. Univ. of Western Ontario	SSHRCC/ CRSHC	Structure of the Inuktitut verb.	1980-81	3,100	11
Kennedy, Warder A. Univ. of Toronto	CC/CAC	Indian Literature: Indian literature in the Kavya genre.	1975-76	11,925	11
Kuhnlein, H.V. Dept. of Home Economics Univ. of British Columbia	NSERCC/ CRSNGC	Traditional foods and diets of native people: Nutrient composition.	1983-84	8,896	11
L'Alternatif Hay River	CC/CAC	Start a folk music centre and art gallery.	1981-82	6,200	11
Lambert, J.A. Yellowknife, N.W.T.	CC/CAC	Design and production through community workshops of 12 library access banners.	1982-83	5,204	11
Lammers, J. Whitehorse, Yukon	CC/CAC	Explorations.	1980-81	7,600	11
Lane, L. Whitehorse, Y.T.	CC/CAC	Short-term Grants/Bourses de courte durée.	1977-78 1981-82	2,250 3,400	11
Larmour, S.J. Mississauga	CC/CAC	To explore the uses of northern vegetation in fibre dyeing.	1974-75	5,486	11
Legat, A. Calgary	CC/CAC	Comparative study of land use based on stories from elders of the Atlin band and other Tlingit bands.	1983-84	6,400	11

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Levy, C.J. Dept. of Health Care and Epidemiolology Univ. of British Columbia	HWC/SBSC	Indian attitude study.	1975-76	840	11
Lucas, P. Whitehorse, Yukon	CC/CAC	Collection, cataloguing and analysis of native music of the Yukon Territory.	1982-83	4,968	11
Marsh, W. Thornhill, Ont.	CC/CAC	Book on Donald B. Marsh and his writings.	1981-82	4,400	11
Martin, A.-S.	CC/CAC	Traduction de "Seasons of the Eskimo", de Fred Bruemmer.	1974-75	1,500	11
Mason, T. Ottawa	CC/CAC	Writing of a play based on Cree legend about tribal warfare and superstition.	1983-84	2,485	11
McMaster, L. Ottawa	CC/CAC	Compilation of data for biographical book on contemporary Canadian Indian Artists.	1982-83	6,000	11
Messiah Singers, Yellowknife, N.W.T.	CC/CAC	Amateur choirs/Aide aux chorales amateurs: Workshop.	1977-78	600	11
Métis Association of the Northwest Territories Yellowknife	CC/CAC	Explorations.	1975-76	7,500	11
Métis Association of the Northwest Territories Yellowknife, N.W.T.	CC/CAC	Production of a 28-minute film about the Métis summer fishery on Great Slave Lake.	1983-84	17,456	11
Monkman, L.	SSHRCC/ CRSHC	Aid to Scholarly Publication/Aide à l'édition savante: A Native Heritage: Images of the Indian in English-Canadian Literature. Toronto: University of Toronto Press, 1981.	1981-82	-	11
Moses, J. Thorold	CC/CAC	Analysis of Canadian news reporting about North American Indians.	1983-84	10,000	11
Mulloy, B. and Paradis, C. Whitehorse, Yukon	CC/CAC	Contribution to costs of rehearsal and tour of Yukon of a collective drama by the Nakai Players.	1983-84	5,000	11

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Murchison, B. Montreal, Que.	CC/CAC	To produce for the use of shcools, radio stations, etc., a dramatic narrative based on Canadian Indian legend and the Canadian cultural heritage.	1974-75	3,000	11
NDWT Company Toronto	CC/CAC	Touring Grants/Aide aux tournées de spectacle.	1978-79	25,000	11
Nash, C. Ontario Institute for Studies in Education	SSHRCC/ CRSHC	Learning and thinking styles of Indian children.	1979-80	5,836	11
National Book Festival Committee for Yukon Whitehorse	CC/CAC	National Book Festival/Festival national du livre.	1982-83	-	11
Native Earth Toronto	CC/CAC	Writing and stage production of a collective creation about the relationships within non-native and native couples and within traditional and urban Indian couples.	1983-84	8,000	11
Nelson, M.R. Whitehorse	CC/CAC	Leather sculpture: touring exhibition.	1976-77	5,500	11
Northern Arts and Culture Centre Yellowknife, N.W.T.	CC/CAC	Public Readings by Canadian Writers in Canada/ Recontres avec des écrivains canadiens au Canada.	1982-83	225	11
Northern Games Association Inuvik, N.W.T.	CC/CAC	Touring Grants/Aide aux tournées de spectacles: Mackenzie Delta Drummers and Dancers; Inuit Games Athletes.	1981-82	10,695	11
Northwest Territories Dept. of Economic Development and Tourism Frobisher Bay	CC/CAC	National Book Festival/Festival national du livre.	1980-81	-	11

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Northwest Territories National Book Festival Committee Yellowknife	CC/CAC	National Book Festival/Festival national du livre.	1979-80 1980-81	- -	11
Northwest Territories Public Library Yellowknife	CC/CAC	National Book Festival/Festival national du livre.	1982-83	-	11
Northwest Territories Tour Hay River, N.W.T.	CC/CAC	Public Readings by Canadian Writers/Rencontres avec des écrivains canadiens du Canada.	1975-76	11,123	11
Northwest Territories Traditional Games Yellowknife	CC/CAC	Arts and Culture Program XXI Olympiad, Montréal, July 1976: Music.	1976-77	38,439	11
Norwegian, B.R. Fort Simpson, N.W.T.	CC/CAC	Explorations.	1979-80	6,629	11
Opera Piccola Vancouver	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1978-79	25,000	11
Padgham, T., McNaughton, H. and Potfighter A. Yellowknife	CC/CAC	Explorations.	1976-77	12,000	11
Pakasaar, H. Vancouver	CC/CAC	Assemble art exhibition on the European vision of northwest Indian culture.	1982-83	4,276	11
Parker, M. Theatre Newfoundland and Labrador Corner Brook, Nfld.	CC/CAC	Commissioning of Canadian composers/Commande de composition musicale.	1983-84	9,350	11
Parmenter, C.P. Winnipeg, Man.	CC/CAC	Explorations.	1980-81	10,000	11
Partensky, J.-P. Montréal	CC/CAC	Traduction de "Sculpture of the Eskimo", de George Swinton.	1976-77	1,825	11
Pask, A.A. Ottawa, Ont.	CC/CAC	Explorations.	1978-79	5,340	11

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Pelinski, R. et Logrippo, L. Univ. d'Ottawa	SSHRCC/ CRSHC	Analyse de chants inuit par ordinateur.	1978-79 1979-80 1980-81	4,221 9,413 6,000	11
Pelly, D. Bolton, Ont.	CC/CAC	Explorations.	1977-78	1,750	11
Possak, F. Calgary	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1978-79	560	11
Prang, M. Dept. of History Univ. of British Columbia	INAC/AINC	Preside at unveiling of Historic Sites and Monuments Board plaque, Eagle Pass.	1976/77	400	11
Presses de l'Université de Montréal	CC/CAC	Translation of Asen Balackci's The Netsilik Eskimo by Isabella Myre.	1975-76	2,450	11
Pretty, S. Ottawa	CC/CAC	Writing and illustrating of children's stories which take place in the Arctic.	1983-84	4,950	11
Pugh, I. Whitehorse, Yukon	CC/CAC	Explorations.	1977-78	5,000	11
Ramona and Dorene Yellowknife	CC/CAC	National Book Festival/Festival national du livre.	1980-81	-	11
Ramona the Raven Yellowknife	CC/CAC	National Book Festival/Festival national du livre.	1982-83	-	11
Rees, R. Univ. of Saskatchewan	SSHRCC/ CRSHC	Image, place, and identity: the role of landscape art in the settlement of the Canadian Prairies and the northern Great Plains.	1979-80	3,946	11
Rice, K. Dept. of Linguistics Univ. of Toronto	INAC/AINC	To support linguistic research with the objective of producing a preliminary grammar of the Fort Good Hope dialect of the Slavey language.	1976-77	7,900	11
Rice, K. Dept. of Linguistics Univ. of Toronto	INAC/AINC	Athapaskan Language Project - Slavey grammar.	1979-80 1980-81	23,711 9,000	11
Robb, J.I. Whitehorse, Y.T.	CC/CAC	Explorations.	1978-79	8,000	11
Robinson, F. Vancouver, B.C.	SSC/ASC EC	Investigation into the life types of relatively remote Indian villages.	1976	1,625 (B.37)	11

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Saladin d'Anglure, B. Dép. d'Anthropologie Univ. Laval	CC/CAC	Anthropologie: Recherche sur le symbolisme inuit (esquimau).	1974-75	38,874		11*
Saladin d'Anglure, B. Dép. d'Anthropologie Univ. Laval	CD/MC	Transmission du savoir & télécommunication chez les Inuit.	1974/75	15,000		11*
Saladin d'Anglure, B. Dép. d'Anthropologie Univ. Laval	CC/CAC	Ethnographie des esquimaux du Nouveau-Québec.	1975-76	1,145		11*
Salisbury, R.F. Dept. of Anthropology McGill Univ.	SSC/ASC INAC/AINC	Research study in the socio-psychological effects on induced change on native peoples in the North West Territories.	1974	37,242	(B.11)	11
Salisbury, R.F. Dept. of Anthropology McGill Univ.	CD/MC	Anik & isolation effects of television on Northern Indian communications patterns.	1974-75	5,900		11
Salisbury, R.F. Dept. of Anthropology McGill Univ.	INAC/AINC	Socialization of northern Athabascan hunters.	1979-80	13,000		11
Salisbury, R.F. Dept. of Anthropology McGill Univ.	SSC/ASC CD/MC	A study into the effect of satellite television broadcasting on isolated Northern & Indian communities and of related communications patterns.	1984	5,915	(B.15)	11
Sampson, G.P. Dept. of Linguistics Univ. of Alberta	CC/CAC	The language varieties used by Cree children.	1974-75 1975-76	3,795 3,003		11
Sawatsky, D.E. Whitehorse, Y.T.	CC/CAC	Explorations.	1978-79	1,800		11
Schwarz, H. Tuktoyaktuk, N.W.T.	CC/CAC	Arts Grants/Bourses de perfectionnement.	1975-76	-		11
Shewan, S. Whitehorse, Yukon	CC/CAC	Arts Grants B: Music/Bourses "B" pour artistes: Musique.	1978-79	10,000		11
Shun Chiu Yau Centre des recherches linguistiques sur l'Asie orientale	SSHRCC/ CRSHC	Création de langage gestuel par les Amérindiens sourds du Canada (Montréal).	1981-82	-		11

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Smith, J.G.E. Dept. of Anthropology Univ. of Waterloo	CC/CAC	Changing socio-cultural adaptations of the caribou eater Chipewyan.	1975-76	3,020		11
Smith, L.R. Dept. of Linguistics Memorial Univ. of Newfoundland	CC/CAC	The grammar of Labrador Inuttut affixation.	1975-76	7,952		11*
Smith, L.R. Dept. of Linguistics Memorial Univ. of Newfoundland	SSHRCC/ CRSHC	Labrador Inuttut syntax.	1979-80	17,928		11*
Smith, L.R. Dept. of Linguistics Memorial Univ. of Newfoundland	SSHRCC/ CRSHC	Extended analysis in Inuktitut syntax.	1980-81	23,062		11*
Society for the Encouragement of Northern Talent Yellowknife, N.W.T.	CC/CAC	Participation of Dené drummers in the Folk on the Rocks Music Festival.	1981-82	6,000		11
Steinbring, J. Dept. of Anthropology Univ. of Winnipeg	CD/MC	Study of impact and meaning of TV among native communities in Northern Manitoba.	1979-80	25,000		11
Steinbring, J. and Granzberg, G. Dept. of Anthropology Univ. of Winnipeg	SSC/ASC CD/MC	Analysis of the impact and meaning of television among native communities in northern Manitoba.	1978 1979	22,372 25,000	(B.68) (B.78)	11 11
Steinbring, J. and Granzberg, G. Dept. of Anthropology Univ. of Winnipeg	SSC/ASC CD/MC	Preparation of a handbook on northern/native television programming.	1980	15,000	(B.92)	11
Steins, J. Dawson, Yukon	CC/CAC	Arts Grants "B": Music/Bourses "B" pour artistes: Musique.	1982-83	14,000		11
Stewart, Murdoch J. Private Scholar	SSHRCC/ CRSHC	A bibliography of Algonquin syllabic texts in Canadian repositories.	1983-84	68,870		11
Strickler, E. Ottawa	CC/CAC	Book of photographs and an essay on the Inuit doll-making tradition with a focus on the doll-makers at Spence Bay.	1983-84	11,500		11

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Swinton, G. Carleton Univ.	SSHRCC/ CRSHC	"Inuit: a way of life", A cultural history.	1979-80	5,883	11
Taylor, L. Memorial Univ. of Newfoundland	CC/CAC	Psychology: The effects of Sesame Street on the cognitive and achievement patterns of children in four isolated communities in southern Labrador.	1975-76	12,200	11*
Theatre Newfoundland and Labrador Corner Brook, Nfld.	CC/CAC	Grants to theatre companies and organizations/Companies et autres sociétés (subventions).	1983-84	5,000	11*
Toronto Consort Toronto, Ont.	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1978-79	4,000	11
Tulurialik, R., Pelly, D. Castleton, Ont.	CC/CAC	Collaborative work between artist and writer on an illustrated collection of Baker Lake tales in English and Inuktitut.	1983-84	8,850	11
Univ. of Alberta	CC/CAC	Symposium on Native religious traditions.	1977-78	3,000	11
Univ. of Alberta	SSHRCC/ CRSHC	Native American Interaction Patterns (Calgary).	1981-82	4,000	11
Univ. of Calgary	CC/CAC	Mysticism symposium Eastern, Western and Native Indian.	1975-76	3,000	11
Univ. of Calgary	SSHRCC/ CRSHC	Conference on the Syntax of Native American Languages.	1980-81	3,000	11
Uunnuaqsiuktit, Baker Lake, N.W.T.	CC/CAC	To bring Inuit singer Charlie Panigoneak from Eskimo Point to Baker Lake in December 1974.	1974-75	731	11
Vaikeapea, A. Finland	CC/CAC	For a tour of Northwest Territories and Western Canada in June and July 1977.	1977-78	5,000	11
Valentine, V.F. Dept. of Anthropology and Sociology Carleton Univ.	INAC/AINC	Assessment of the relations between the Eastern Arctic Resource Centre at Igloolik and the Inuit community.	1979/80	2,000	11
Vancouver Radio Orchestra Vancouver, B.C.	CC/CAC	For a tour of Alberta, Manitoba and the Eastern Arctic in May and June 1974.	1974-75	22,000	11
Watson, L.F. Dept. of Anthropology and Archaeology Univ. of Saskatchewan	CD/MC	Television impact on Rankin Inlet.	1974-75	12,000	11

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Watson, L.F. Dept. of Anthropology and Archaeology Univ. of Saskatchewan	SSC/ASC CD/MC	Research study into the socio-cultural impact of the introduction of television on a relatively isolated and largely Eskimo Northern community with very limited previous experience with mass communications media.	1974	11,996	(B.16)	11
Watson, P. Dept. of Psychology Trent Univ.	CC/CAC	Cognitive development in Inuit children.	1975-76	1,600		11
Wenzil, G. Dept. of Geography McGill Univ.	INAC/AINC	Inuit sharing and money - A proposal for fieldwork at Clyde River, N.W.T.	1978-79	4,500		11
Whitehorse Choral Society Whitehorse, Y.T.	CC/CAC	Grants to amateur choirs/Aide aux chorales amateurs: Choirmaster, choral workshop.	1976-77	1,000		11
Whitehorse Choral Society Whitehorse, Yukon	CC/CAC	Touring Grants/Aide aux tournees de spectacles.	1982-83	3,815		11
Whitehorse Public Library Whitehorse	CC/CAC	National Book Festival/Festival national du livre.	1979-80	-		11
Whitehorse Public Library Whitehorse, Yukon	CC/CAC	Public Readings by Canadian Writers/Recontres avec des écrivains canadiens.	1979-80	542		11
Wilkinson, P.F. Centre for Nordic Studies and Research McGill Univ.	SSC/ASC EC	Study of, and preparation of a glossary on, terms and concepts peculiar of native populations.	1981	8,000	(B.95)	11*
Wolfart, C. Univ. of Manitoba	SSHRCC/ CRSHC	A text-based lexicon of Cree.	1981-82 1982-83	61,583 30,880		11
Wright, A. Whitehorse, Yukon	CC/CAC	Explorations.	1977-78	4,500		11
Yakeleya, R. Yellowknife, N.W.T.	CC/CAC	Production Grants/Aide a la production cinematographique.	1980-81	15,208		11

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
York Univ. Downsview, Ont.	CC/CAC	Rental of equipment for a sculpture exhibition entitled Inuit Women in Translation.	1975-76	400	11
Yukon Conference on the Arts Implementation Committee Whitehorse	CC/CAC	Conferences/Conférences.	1976-77	7,100	11

DEMOGRAPHY / DÉMOGRAPHIE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Bone, R.M. Committee on Northern Studies Univ. of Saskatchewan	INAC/AINC	To carry out an analysis of census and vital statistics data of northern Canada 1941-71.	1976-77	2,500	12
Bone, R.M. Committee on Northern Studies Univ. of Saskatchewan	INAC/AINC	Evaluation of Yukon's government medicare records as a source of demographic data.	1979-80	22,000	12
Légaré, J. Dép. de Démographie Univ. de Montréal	INAC/AINC	Northern demography and population studies.	1978-79	15,795	12*
Légaré, J. Dép. de Démographie Univ. de Montréal	INAC/AINC	Participation of native people at the Northern Demography Conference.	1979-80	1,000	12*
Légaré, J. Dép. de Démographie Univ. de Montréal	INAC/AINC	Secrétariat du Comité de recherche sur les populations nordiques.	1979-80 1980-81	14,000 8,729	12*
Legare, J. Dep. de Démographie Univ. de Montréal	INAC/AINC	A study of Northern demography.	1981-82	24,800	12*
Légaré, J. Dép. de Démographie Univ. de Montréal	INAC/AINC	Bibliography study of social and demographic literature dealing with the Mackenzie District, N.W.T.	1981-82	10,000	12
Robitaille, N. Dép. de Démographie Univ. de Montréal	INAC/AINC	Aperçu de la situation démographique, sociale et économique de la population Inuit du Canada.	1983-84	21,640	12
Robitaille, N. Dép. de Démographie Univ. de Montréal	SSHRCC/ CRSHC	Colloque international sur les questions démographiques dans la société nordique.	1983-84	-	12*
Robitaille, N. et Bourbeau, R. Dép. de Démographie Univ. de Montreal	SSHRCC/ CRSHC	Registre de la population des Inuit du Nouveau-Québec.	1982-83 1983-84	9,500 12,717	12*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Univ. de Montréal	SSHRCC/ CRSHC	Colloque II sur les populations nordiques (Montréal).	1979-80	1,700	12*
Univ. de Montréal	SSHRCC/ CRSHC	Actes du deuxième colloque sur les populations nordiques/Proceedings of the Northern Population Workshop II (Montréal).	1981-82	-	12*
Univ. de Montréal	SSHRCC/ CRSHC	Northern Population Workshop IV/4e colloque sur les populations nordiques.	1983-84	7,000	12*

ECONOMY AND ECONOMIC DEVELOPMENT / ÉCONOMIE ET DÉVELOPPEMENT ÉCONOMIQUE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Defomasi, D. Dept. of Environmental Design Univ. of Calgary	INAC/AINC	Economic study of the Yukon land market.	1981-82	2,000		13
Graham, K.A. Queen's Univ. at Kingston	INAC/AINC	Northern economic development evaluation assessment study.	1983-84	16,099		13
Harrison, P. Univ. of Ottawa	SSHRCC/ CRSHC	Institution for managing Canada's marine economic zone.	1978-79	3,000		13
Shaffer, E.H. Dept. of Economics Univ. of Alberta	EMRC	The political economy of North American oil.	1979-80	2,500		13
Simard, J.-J., Fréchette, P. et Robitaille, P. Univ. Laval	SSHRCC/ CRSHC	Economie politique au Nouveau-Québec inuit 1945-1983.	1983-84	64,738		13*
Sutherland, B.G. Winnipeg, Man.	SSC/ASC DFO/MPO	Documentation of proposed resource projects in the Mackenzie Basin.	1982	14,000	(B.107)	13

ECOLOGY, ECOLOGICAL INVENTORIES, ENVIRONMENT DESCRIPTION / ECOLOGIE, INVENTAIRES ECOLOGIQUES, DESCRIPTION DE L'ENVIRONNEMENT

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Addison, P. Maxville, Ont.	SSC/ASC EC	Integrated mapping of biophysical resources of National Parks with emphasis on South Nahanni National Park.	1975	22,400	(B.26)	14
Addison, P. Maxville, Ont.	SSC/ASC DFE/MPE	Integrated mapping of biophysical resources for South Nahanni National Park.	1977	20,160	(B.51)	14
Aquatic Environments Limited Calgary, Alta.	SSC/ASC INAC/AINC	Analysis of the effects of siltation on the ecology of Ya Ya Lake.	1977	68,547	(B.53)	14
Bliss, L.C. Boreal Institute for Northern Studies Univ. of Alberta	INAC/AINC	To assist in compiling and summarizing work on research related to the IBP studies in Truelove Lowland.	1976-77	5,000		14
Boreal Institute for Northern Studies Univ. of Alberta	INAC/AINC	Completion of the Mackenzie Delta Area resources study.	1975-76	5,000		14
Crampton, C.B. Dept. of Geography Simon Fraser Univ.	NSERCC/ CRSNGC	The analysis and mapping across the Canadian North of an ecotone characterized by rapidly changing environmental conditions.	1980-81	3,000		14
Delorey, W. Toronto	CC/CAC	Supplementary grant for a 16mm color film entitled Yukon Wilderness.	1975-76	3,935		14
De Romer, N. Hudson Heights, Que.	SSC/ASC DFE/MPE	Traitement d'echantillons biologiques recueillis dans l'ouest de l'Arctique au cours de l'ete 1977.	1977	1,875	(B.57)	14
Dobson, V. Calgary, Alta.	SSC/ASC EC	Provision of services related to the Mackenzie River Basin Study report.	1981	3,017	(B.94)	14

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Freedman, B. Dept. of Biology Dalhousie Univ.	NSERCC/ CRSNGC	Factors affecting the primary productivity and plant diversity in a high Arctic oasis at Alexandra Fiord, Ellesmere Island, N.W.T.	1980-81 1981-82 1982-83	15,000 16,500 19,058		14
Freedman, B. Dept. of Biology Dalhousie Univ.	NSERCC/ CRSNGC	Atomic absorption spectrophotometer.	1980-81	25,500		14
Freedman, B. Dept. of Biology Dalhousie Univ.	NSERCC/ CRSNGC	Ecology of a high Arctic oasis, Ellesmere Island, N.W.T.	1982-83	6,500		14
Freedman, H.I. Dept. of Mathematics Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Periodicity, stability and population ecology.	1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	2,535 2,600 2,818 3,463 3,584 3,935 9,332 10,778 11,425		14
Geostudio Consultants Limited Ottawa, Ont.	SSC/ASC NDD/MDN	Terrain classification in northern Canada using earth resources technology satellite data.	1975	14,980	(B.30)	14
Gill, D. Dept. of Geography Univ. of Alberta	INAC/AINC	The Mackenzie Delta Area resources study.	1974-75	20,000		14
Hagen, M. Burnaby, B.C.	SSC/ASC EC	Baseline geological, biological, oceanographic and land use overview of King Point coastal area (Beaufort Sea).	1982	4,000	(B.111)	14
Harris, S.A. Dept. of Geography Univ. of Calgary	NSERCC/ CRSNGC	Alpine environmental studies.	1983-84	7,632		14
Jacobs, J.D. Dept. of Geography Univ. of Windsor	NSERCC/ CRSNGC	Paleoenvironments, of the Frobisher Bay Area, Baffin Island, NWT.	1982-83 1983-84	8,000 8,480		14

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Jamieson, R.S. Boreal Institute for Northern Studies Univ. of Alberta	SSC/ASC DFE/MPE	Referencing of documents pertaining to the Mackenzie River Basin.	1977	10,000	(B.48)	14
Karl E. Ricker Limited West Vancouver, B.C.	SSC/ASC EMRC	Collection and compilation of terrain unit information for part of the Dempster Highway, Yukon, Territory.	1977	3,750	(B.55)	14
Krajina, V.J. Dept. of Biology Univ. of British Columbia	NRCC/CNRC	1) Ecology of the Pacific Northwest and Canadian Arctic and Subarctic. 2) Primary productivity and biogeochemical cycling of coastal forests in British Columbia.	1974-75 1975-76	5,000 3,900		14
LGL Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Preparation of a selective annotated bibliography of the biology of Lancaster Sound and vicinity.	1977	13,373	(B.47)	14
La Roi, G.H. Dept. of Botany Univ. of Alberta	NSERCC/ CRSNGC	Complexity and stability of boreal ecosystems.	1980-81 1981-82 1982-83	5,000 5,500 6,353		14
La Roi, G.H. Dept. of Botany Univ. of Alberta	NSERCC/ CRSNGC	Structural dynamics and productivity of boreal ecosystems.	1983-84	13,780		14
Luney, S. Winnipeg, Man.	SSC/ASC DFO/MPO	Analysis of environmental data collected in the Saqvaqjuac, Northwest Territories, experimental area during 1980 and 1981.	1982	2,400	(B.107)	14
McLaughlin, M. Ste-Anne-de-Bellevue, Que.	SSC/ASC DFE/MPE	Process biological samples collected in the Western Arctic during the summer of 1977.	1977	1,875	(B.57)	14
Nichol, H.E.A. Sidney, B.C.	SSC/ASC EC	Collaboration in the preparation of the final Beaufort Sea reports.	1975	1,998	(B.32)	14
Norcor Engineering and Research Limited Yellowknife, N.W.T.	SSC/ASC EC	Consultant and advisory services to the Beaufort Sea Project "H" Task Group.	1975	14,825	(B.30)	14
Northern Biomes Limited Whitehorse, Yukon	SSC/ASC EC	Ecological studies in the Yukon River basin.	1982	49,580	(B.111)	14

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Paish, C. New Westminster, B.C.	SSC/ASC DFE/MPE	Study of water, human and other natural resources within the Yukon River Basin.	1978	1,190	(B.59)	14
Payette, S. Dép. de Phytotechnie Univ. Laval	NRCC/CNRC	1) Ecologie végétale et pédologie de la toundra forestière et de la toundra hudsoniennes. 2) Etude écologique des étages alpin et sub-alpin du Mont Jacques-Cartier, Parc de la Gaspésie, Québec.	1974-75 1975-76	5,000 5,705		14*
Payette, S. Centre d'Etudes nordiques Univ. Laval	NSERCC/ CRSNGC	Ecologie de la zone hémi-arctique du Nouveau-Québec.	1980-81	15,000		14*
Pilkington, M.F. Dollard-des-Ormeaux, Que.	SSC/ASC EC	Technical assistance in research into the ecology of Arctic marine and fresh waters.	1974	2,020	(B.15)	14
Ratynski, R. Winnipeg, Man.	SSC/ASC DFO/MPO	Conduct a biological sampling project in Tuktoyaktuk Harbour, Northwest Territories.	1982	17,600	(B.111)	14
SCADA Associates London, Ont.	SSC/ASC EC	Analyses of vegetation, soil and other environmental data collected along the Dempster Highway in 1979.	1980	2,000	(B.92)	14
Sherad, J.W. Dept. of Biology Univ. of Saskatchewan	NRCC/CNRC	1) Revision of the lichen genus rinodina in North America. 2) Studies on the ecology of Arctic lichens.	1974-75	7,500		14
Sinclair, A.R.E. Dept. of Zoology Univ. of British Columbia	NRCC/CNRC	Ecosystems studies of the Spatsizi Plateau, Central B.C., with emphasis on mountain caribou.	1977-78 1978-79	8,130 8,618		14
Stander, E. Memorial Univ. of Newfoundland	SSC/ASC NRCC/CNRC	Pond Inlet field study 1982-83.	1983	20,008	(B.118)	14
Svoboda, J. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Ecology of a high Arctic oasis, Alexandra Fiord, Ellesmere Island, N.W.T.	1982-83	6,500		14
Thornton, D.E. Edmonton, Alta.	SSC/ASC EC	Consultant and scientific services to Beaufort Sea Project "H" Task Force.	1975	5,000	(B.30)	14

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Timmerlinn Limited Ste. Agathe des Monts, Que.	SSC/ASC EC	Biomass equations for Northwest Territories and northern parts of prairie provinces.	1981	99,897	(B.100)	14
Tomlinson Associates Ottawa, Ontario	INAC/AINC	Yukon resources information study.	1980	90,200	(B.119)	14
Tompkins, A.M. Winnipeg, Man.	SSC/ASC DFO/MPO	Process data collected by the Arctic biological station.	1983	6,000	(B.72)	14
Western Ecological Services Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Research and preparation of Volume 5, entitled Ecology of the Canadian Arctic Archipelago.	1977	16,513	(B.50)	14
Western Ecological Services Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Research and preparation of Volume 6, of the publication entitled Ecology of the Canadian Arctic Archipelago.	1977	17,650	(B.56)	14
Western Ecological Services Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Research and prepare volume 7 of the "Ecology of the Canadian Arctic Archipelago" Selected References.	1978	18,840	(B.61)	14
Western Ecological Services Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Research and prepare Volume 8 - "Ecology of the Canadian Arctic Archipelago: Selected References".	1979	22,050	(B.73)	14
Western Ecological Services (B.C.) Limited Sidney, B.C.	SSC/ASC INAC/AINC	Research and preparation of Volume 9 - Ecology of the Canadian Arctic Archipelago; Selected References.	1980	24,413	(B.85)	14
Western Ecological Services (B.C.) Limited Sidney, B.C.	SSC/ASC INAC/AINC	Research and prepare Volume 10 - "Ecology of the Canadian Arctic Archipelago: Selected References".	1981	26,940	(B.99)	14
Western Ecological Services (B.C.) Limited Sidney, B.C.	SSC/ASC INAC/AINC	Research and prepare volume 11 - "Ecology of the Canadian Arctic Archipelago: Selected references".	1982	29,700	(B.111)	14
Western Ecological Services (B.C.) Limited Sidney, B.C.	SSC/ASC INAC/AINC	Research and prepare volume 12 - "Ecology of the Canadian Arctic Archipelago: Selected References".	1983	31,500	(B.123)	14

EDUCATION / EDUCATION

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Couture, J. Dept. of Native Studies Trent Univ.	INAC/AINC	Secondary education for Canadian registered Indians.	1979-80	18,500	15
Greer Galloway and Associates Limited Peterborough, Ont.	SSC/ASC INAC/AINC	Native school site development - traditional native games.	1983	15,000 (B.129)	15
Hamilton, W.D. Fac. of Education New Brunswick Univ.	INAC/AINC	Evaluation of education programs - Chapel Island Reserve.	1982-83	30,000	15
Lane, P. Fac. of Education Univ. of Lethbridge	INAC/AINC	Alexander Reserve Educational System including post-secondary and alternative education.	1981-82	27,370	15
Lundell, O.R. Fac. of Science York Univ.	INAC/AINC	Ecology course at Igloolik Scientific Resource Centre and Sarcpa Lake.	1979-80	9,000	15
Savard, R. Fac. des Sciences de l'education Univ. de Montreal	INAC/AINC	To carry out a research on the Inuit and Indians of Canada in the school textbooks.	1975-76	16,000	15
Shimp, M. Fac. of Education Univ. of Waterloo	CC/CAC	Education of Indians in public schools and emerging Indian nationalism.	1975-76	585	15
Univ. of Saskatchewan College of Law	INAC/AINC	To initiate preliminary field liaison and assessment of research toward the development of a legal information and education program for aboriginal people in the N.W.T.	1976-77	4,800	15
Univ. of Windsor	INAC/AINC	To support courses in geography to be held in Frobisher Bay attended by a large proportion of northern people.	1976-77	5,000	15

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT	NO./ NO
Versloot, P.E. Univ. of Alberta	INAC/AINC	To carry out an analysis of the data of two cohorts of native pupils in the NWT school system as it relates to early school leaving.	1976-77	2,012	15
Woolley, P. Dept. of Social Work Univ. of Manitoba	HWC/SBSC	Northern social work education project.	1974-75	5,634	15
York University	INAC/AINC	To support a course in Arctic ecology to be held at the Igloolik Laboratory.	1976-77	4,500	15

EMPLOYMENT AND TRAINING / EMPLOI ET FORMATION

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Alain, M. Cap-Santé, Que.	SSC/ASC DMI/MMI	Étude de services d'examen et d'orientation fournis aux autochtones.	1975	11,700	(B.29)	16*
Arctic Laboratories Limited Inuvik, N.W.T.	SSC/ASC EC	Provision of scientific support to a program development workshop in Yellowknife.	1983	6,000	(B.125)	16
Basic Manpower Training Interprovincial Limited Cold Lake, Alta.	SSC/ASC EC	Provision of technical training for the Northwest Territories Environmental Emergency Prevention and Response Course.	1983	12,200	(B.121)	16
Batdorf, L. Dept. of Education St Francis Xavier Univ.	INAC/AINC	Development of band welfare administrators training package.	1980-81	32,812		16
Batdorf, L. Dept. of Education St. Francis Xavier Univ.	INAC/AINC	Re-design social assistance program training modules.	1980-81	20,835		16
Carney, P. Univ. of British Columbia	INAC/AINC	A study related to Northern employment.	1975-76	21,225		16
Clarke Institue of of Psychiatry Toronto, Ont.	SSC/ASC EC	Literature review of placement of atmospheric environment service personnel in isolated environments.	1982	18,000	(B.109)	16
Haimila, N.E. Cochrane, Alta.	SSC/ASC EMRC	Geologist Arctic training program for the Institute of Sedimentary and Petroleum Geology.	1980	14,000	(B.91)	16

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
L.C. Oddy Training Design Limited Ottawa, Ont.	SSC/ASC EC	Technical training assistance for a Yukon environmental emergency response course.	1982	8,385	(B.109)	16
Lampe, W.J.P. Shaker Heights, Ohio	SSC/ASC INAC/AINC	Study on the employment-related preferences and aspirations of Yukon natives.	1974	17,750	(B.10)	16
Lampe, W.J.P. Dept. of Social Work Univ. of Manitoba	INAC/AINC	Employment preferences and aspirations of Yukon natives.	1974/75	14,000		16
Mohun, W.A. Richmond Hill, Ont.	SSC/ASC EC	Evaluation of training program in the basics of oil spill response.	1980	1,800	(B.83)	16
Saladin d'Anglure, B. Dep. d'Anthropologie Univ. Laval	INAC/AINC	Problems of native peoples adapting to modern work environments.	1974-75	5,054		16*
Yukon Native Brotherhood Whitehorse, Yukon Territories	SSC/ASC INAC/AINC	A study on the employment-related preferences and aspirations of Yukon natives.	1974	5,500	(B.10)	16

ENERGY (GENERAL) / ENERGIE (GENERAL)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
A.D.I. Limited Fredrericton, N.B.	SSC/ASC NRCC/CNRC	Study on the biogasification of peat.	1982	25,000	(B.109)	17
Acres Consulting Services Limited Vancouver, B.C.	SSC/ASC EMRC	Overview study of potential for Yukon communities to reduce their dependence on oil.	1983	22,850	(B.128)	17
Boocock, D.G.B. Dept. of Chemical Engineering Univ. of Toronto	EMRC	An experimental study of the feasibility of direct conversion of biomass to a liquid fuel.	1981-82	9,000		17
Canadian Standards Association Re·dale, Ont.	SSC/ASC EMRC	Provision of services in support of the development and implementation of northern housing standards and the super energy efficient housing demonstration project.	1983	25,000	(B.126)	17
Chronet, E. Dep. de Genie chimique Univ. de Sherbrooke	NSERCC/ CRSNGC	Hydroraffinage catalytique des fractions issues de la liquefaction des la biomasse et de la tourbe: Nouvelles approches basees sur des reacteurs a jet et catalyseurs homogenes et en suspension colloidale.	1983-84	56,800		17
Colloque international sur l'energie renouvelable dans le Grand Nord Ecole Polytechnique, Montreal (printemps 1979)	NSERCC/ CRSNGC	Conference Grants/Subventions pour conferences.	1978-79	4,000		17
Conseil Economique D'Alma et du Lac St Jean Alma, Que.	SSC/ASC NRCC/CNRC	Developpement des techniques de production et combustion de boudins de tourbe energetique.	1982	62,900	(B.113)	17

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Coreco Incorporee Longueuil, Qué.	SSC/ASC NRCC/CNRC	Evaluation theorique de quatre possibilités de bassins solaires conçus pour les climats septentrionaux.	1980	35,351	(B.91)	17
Coupal, B. Dep. de Genie chimique Univ. de Sherbrooke	NRCC/CNRC	L'utilisation de la tourbe.	1974-75 1975-76 1976-77 1977-78	150,000 100,000 57,500 31,000		17
Experimental Engineering Equipment Limited Niagara-on-the-Lake, Ont.	SSC/ASC NDD/MDN	Feasibility study and conceptual design of a solar powerhouse for the Arctic.	1976	13,760	(B.36)	17
Geochem Laboratories (Canada) Limited Calgary, Alta.	SSC/ASC EMRC	Lower Mackenzie energy corridor study.	1977	10,000	(B.54)	17
Giles, G.K. Vancouver, B.C.	SSC/ASC EC	Energy corridor analysis of the Beaufort Sea.	1981	3,300	(B.101)	17
Gilpin, R.R. Dept. of Mechanical Engineering Univ. of Alberta	EMRC	Net heat gain or loss through south facing windows in a northern climate.	1977-78	1,000		17
Gilpin, R.R. Dept. of Mechanical Engineering Univ. of Alberta	EMRC	Measurements of energy savings obtained by using south facing windows in a northern climate.	1978-79 1979-80	10,000 8,600		17
Gilpin, R.R. Dept. of Mechanical Engineering Univ. of Alberta	EMRC	Energy savings obtained by using south facing windows in a northern climate.	1980-81	12,000		17
Gilpin, R.R. Dept. of Mechanical Engineering Univ. of Alberta	EMRC	Direct solar gain in a northern climate.	1981-82 1982-83	12,000 10,000		17
Hough Stansbury and Associates Limited Toronto, Ont.	SSC/ASC DFE/MPE	Development of a master plan for a public awareness program on forest biomass as a source of energy.	1978	41,220	(B.68)	17

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Institut de Recherche de l'Hydro-Québec Varennes, Que.	SSC/ASC NRCC/CNRC	Recherche et developpement des pompes à chaleur utilisant une source d'eau à basse température.	1978	20,000	(B.59)	17
LeDuy, A. Dep. de Genie chimique Univ. Laval	NSERCC/ CRSNGC	Fermentations des hydrolysats de tourbe.	1980-81 1981-82 1982-83	35,000 38,990 43,715		17
Lenard, J.G. Dept. of Mechanical Engineering Univ. of New Brunswick	EMRC	Limiting reduction and power consumption in cold strip rolling.	1979-80 1980-81	10,000 9,000		17
Lin, S. and Krakow, K.I. Dept. of Mechanical Engineering Concordia Univ.	NSERCC/ CRSNGC	A solar heat pump heating system with a latent heat storage for cold climates.	1979-80 1980-81 1981-82	17,700 18,337 19,201		17
Lin., S. and Krakow, K.I. Dept. of Mechanical Engineering Concordia Univ.	NSERCC/ CRSNGC	A multiple, solar, air and storage, source heat pump for cold climates.	1982-83 1983-84	45,946 46,583		17
Manville, G.C. Warminster, Pennsylvania, USA	SSC/ASC EC	Identification of sphagnum and other moss and peat materials.	1983	2,100	(B.129)	17
Martin, A.M. Dept. of Biochemistry Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Utilization of peat as fermentation substrate.	1981-82 1982-83 1983-84	10,000 11,550 12,243		17
Mednis, R.J. Memorial Univ. of Newfoundland	SSC/ASC EC	Conduct a survey of scientific literature on major aspects of boreal energy forest research and development.	1983	10,670	(B.126)	17
Monenco Ontario Limited Toronto, Ont.	SSC/ASC NRCC/CNRC	Evaluation of alternative wet peat mining systems.	1982	51,555	(B.112)	17

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Montreal Engineering Company Limited Montreal, Que.	SSC/ASC EMRC	Assessment of Canadian peat as an alternative fuel for power generation.	1977 1977	29,999 500	(B.46) (B.51)	17
Montreal Engineering Company Limited Montreal, Que.	SSC/ASC	Utilization of Canadian peat seen as alternative energy source	1978 1979	51,000 140,000		17
Nevin Sadlier-Brown Goodbrand Limited Vancouver, B.C.	SSC/ASC EMRC	Assessment of geothermal resources in Cordilleran Yukon and Northwest Territories.	1976	48,250	(B.37)	17
Odgers, J. Dep. de Genie mecanique Univ. Laval	NDD/MDN DRB/CRD	Small space heaters for use under arctic conditions.	1974-75 1975-76	4,500 8,300		17
Odgers, J. Dep. de Genie mecanique Univ. Laval	SSC/ASC NDD/MDW	Modification and testing of a heating system for use in the Arctic.	1977	29,244	(B.51)	17
Odgers, J. Dep. de Genie mecanique Univ. Laval	NDD/MDN DRB/CRD	Redesign and modify the Laval multi-fuel Arctic heater prototype.	1977-78	20,000		17
Odgers, J. Dep. de Genie mecanique Univ. Laval	NDD/MDN DRB/CRD	Modification et experience d'un appareil de chauffage pour usage dans l'Arctique.	1978-79	6,075		17
Reid, Crowther and Partners Limited Whitehorse, Yukon	SSC/ASC EMRC	Canadian oil substitution program - pilot study in the Yukon.	1982	234,866	(B.114)	17
S.P. Consulting Whitehorse, Yuk.	SSC/ASC EMRC	Home Energy Programs/Yukon Energy Audit Demonstration Program.	1983	184,509	(B.128)	17
Saskatchewan Power Corporation Regina, Sask.	SSC/ASC EMRC	Study relating to thermal dewatering of lignite and peat.	1980	35,317	(B.92)	17
Stanley Associates Engineering Limited Edmonton, Alta.	SSC/ASC EMRC	Canadian oil substitution program - pilot study in the Northwest Territories.	1982	266,100	(B.114)	17

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
VanSickle, B. Dundas, Ont.	SSC/ASC EC	Chemical characterization of peat.	1983	17,589	(B.126)	17
Western Ecological Services Limited Edmonton, Alta.	SSC/ASC EC	Extensive literature survey of the growth, yield and biomass of different tree species and other vegetation present in the Boreal Zone - part of the Energy from the Forest (ENFOR) Program.	1980	40,000	(B.88)	17
Woodlot Service Limited Federicton, N.B.	SSC/ASC EC	Selection, falling, measurement, weighing, and subsampling of main commercial species within the Prairies and Northern Territories - part of the ENFOR Program.	1979 1980	73,768 35,855	(B.77) (B.85)	17
Yukon Conservation Society Whitehorse, N.W.T.	SSC/ASC EMRC	Establish and maintain an Energy Information Centre for the Yukon Territory.	1983	33,970	(B.128)	17
Ziemba, W.T. Fac. of Commerce and Business Administration Univ. of British Columbia	EMRC	A unified framework for the analysis of alternative Canadian energy policies.	1979-80	12,500		17

ENGINEERING, CONSTRUCTION AND MATERIALS, ARCHITECTURE / INGÉNIERIE, CONSTRUCTION ET MATÉRIAUX, ARCHITECTURE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Acres Consulting Services Limited Niagara Falls, Ont.	SSC/ASC EC	Inventory of Canadian cold regions engineering research capability.	1978	79,400	(B.58)	18
Adam, K.M. Dept. of Civil Engineering Univ. of Manitoba	NRCC/CNRC	The inter-relationships of water application rate, ambient temperature snow road properties, and ice-cap depth during construction of winter roads.	1974-75 1975-76	4,500 5,135		18
Aitcin, P.C. Fac. des sciences appliquées Univ. de Sherbrooke	SSC/ASC PWC/TPC	Étude de la resistance d'échantillons de béton submergés en eau froide de mer après moulage à air froid.	1981	21,961	(B.105)	18
Aitcin, P.C. Fac. des sciences appliquées Univ. de Sherbrooke	SSC/ASC PWC/TPC	Étude du traitement du béton dans les eaux de l'Arctique.	1982	17,500	(B.114)	18
Aitcin, P.C. Dep. de Génie civil Univ. de Sherbrooke	PWC/TPC	Étude du murissement de béton dans les eaux de l'arctique.	1982-83	24,024		18
Associated Engineering Services Limited Vancouver, B.C.	SSC/ASC	Design and site preparation of water control structure for Alaskan national wildlife area.	1982	7,497	(B.114)	18
Aviation Electric Limited Montreal, Que.	SSC/ASC NDD/MDN	Feasibility study to develop a very low frequency heading reference system for northern latitudes.	1982	172,871	(B.107)	18
Bergan, A.T. Dept. of Civil Engineering Univ. of Saskatchewan	NRCC/CNRC NSERC/ CRSNG	A fatigue study of asphalt concrete pavements for roadways and runways in northern regions.	1976-77 1977-78 1978-79	15,000 16,260 17,236		18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Bergan, A.T. Dept. of Civil Engineering Univ. of Saskatchewan	NRCC/CNRC	Data acquisition equipment for an automatic highway scale.	1977-78	23,000		18
Bergan, A.T. Dept. of Civil Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	A study of pavement rehabilitation in cold regions.	1979-80 1980-81 1981-82	22,000 24,156 26,572		18
Bertie, J.E. Dept. of Chemistry Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Vibrational spectroscopy and the structure of solids.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	13,000 14,830 15,210 20,000 21,200 21,942 26,000 28,600 33,033		18
Bertie, J.E. Dept. of Chemistry Univ. of Alberta	NRCC/CNRC	Rapid-scan mid-infrared spectrometer.	1975-76	39,750		18
Bertie, J.E. Dept. of Chemistry Univ. of Alberta	NSERCC/ CRSNGC	Vibrational spectra, structure, and forces	1983-84	36,040		18
Berwanger, C. Dept. of Civil Engineering Univ. of Ottawa	NRCC/CNRC NSERCC/ CRSNGC	A study of the low-temperature properties of structural materials and their behaviour in composite structures.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81	9,000 9,750 10,000 10,840 12,500 12,938 14,206		18
Bird and Hale Limited Toronto, Ont.	SSC/ASC INAC/AINC	Assessment of granular materials in the Hay River area through the assessment of the potential sources located located south of Mile 12 on the Fort Smith Highway.	1978	11,000	(B.62)	18
Black, F.W. Centre for Advanced Engineering Design Carleton Univ.	SSC/ASC NDD/MDN	Testing of a prototype Arctic start assist kit.	1979	10,000	(B.70)	18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Cheng, K.C. Dept. of Mechanical Engineering Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Studies in free and forced convection heat transfer under Arctic (or cryogenetic) conditions.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	7,000 28,520 29,250 25,000 16,500 17,428		18
Cheng, K.C. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	Studies of convective heat transfer problems in cold region.	1980-81 1981-82 1982-83	28,500 31,350 36,209		18
Civil Engineering Consultants Limited Calgary, Alta.	SSC/ASC PWC/TPC	Differential thermal stress measurements, Robert Campbell Bridge, Whitehorse, Yukon	1981	27,000	(B.103)	18
Clouter, M.J. Dept. of Physics Memorial Univ. of Newfoundland	NRCC/CNRC	Laser light scattering from simple liquids and solids at low temperatures.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	5,000 5,850 10,000 10,000 10,600 10,971		18
Clouter, M.J. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Laser light scattering spectroscopy.	1980-81 1981-82 1982-83 1983-84	13,150 14,465 11,550 27,560		18
Cowie, M. Dept. of Chemistry Univ. of Alberta	NSERCC/ CRSNGC	Small molecule activation by transition for metal complexes.	1982-83 1983-84	20,000 4,441		18
Dominion Foundries and Steel Limited Hamilton, Ont.	SSC/ASC EMRC	Research on the low temperatures toughness properties of cast steel.	1975 1977	79,587 45,996	(B.28) (B.49)	18
DSMA Atcon Limited Toronto, Ont.	SSC/ASC NRCC/CNRC	Study of the need for and nature of a national cold regions engineering facility in Alberta.	1982	25,000	(B.115)	18
Emery, J.J. Dept. of Civil Engineering and Engineering Mechanics McMaster Univ.	NRCC/CNRC	Dynamic interface behaviour of foundation-soil systems, simulation of crrep and creep rupture in in cohesive soils, rock and ice.	1974-75 1975-76 1976-77	6,300 7,185 7,371		18

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Emery, J.J. Dept. of Civil Engineering and Engineering Mechanics McMaster Univ.	NRCC/CNRC NSERCC/ CRSNGC	1) Seismic response of large foundation systems and underground openings. 2) Simulation of creep and creep rupture problems involving rock, cohesive soils and ice.	1977-78 1978-79 1979-80	10,850 11,501 11,904		18
Emery, J.J. Dept. of Civil Engineering and Engineering Mechanics McMaster Univ.	NRCC/CNRC	Servo controlled, multi-axial, rock creep testing system.	1977-78	28,000		18
Enns, E.G. Dept. of Mathematics and Statistics Univ. of Calgary	NSERCC/ CRSNGC	Innovative statistical models.	1981-82 1982-83 1983-84	4,060 4,689 4,970		18
FENCO Consultants Limited Calgary, Alta.	SSC/ASC TC	Review of steel properties at low temperatures.	1979	58,000	(B.80)	18
Fenco Engineers Inc. Toronto, Ont.	SSC/ASC TC	Preparation of an Arctic marine design and construction handbook.	1983	123,216	(B.125)	18
Fredlund, D.G. Dept. of Civil Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	Engineering behaviour of unsaturated and swelling soils.	1979-80 1980-81 1981-82	15,000 16,470 18,117		18
Fredlund, D.G. Dept. of Civil Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	Engineering behaviour of expansive soils	1981-82 1982-83 1983-84	40,000 70,764 79,168		18
Frood, D.G. Dept. of Physics Lakehead Univ.	NSERCC/ CRSNGC	Theoretical and experimental research in dielectrics.	1981-82 1982-83	3,000 3,405		18
Gamble, B.B. Dept. of Civil Engineering Univ. of Calgary	NDD/MDN DRB/CRD	Stabilization of Arctic soils for construction of pavements.	1974-75 1975-76	4,000 4,227		18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Gardner, N.J. Dept. of Mechanical Engineering Univ. of Calgary	SSC/ASC PWC/TPC	Study the strength, mechanical properties and durability of concrete cast and cured at low temperatures.	1983	11,700	(B.127)	18
Glockner, P.G. Dept. of Mechanical Engineering Univ. of Calgary	NDD/MDN DRB/CRD	Temporary enclosures for the North.	1974-75 1975-76	7,000 6,000		18
Glockner, P.G. Dept. of Mechanical Engineering Univ. of Calgary	NSERCC/ CRSNGC	Study of linear and nonlinear behaviour of homogeneous and layered shells and shells and their use in housing, commercial and industrial construction.	1974-75 1975-76 1976-77 1977-78 1978-79	215,000 17,110 18,000 19,512 20,683		18
Glockner, P.G. Dept. of Mechanical Engineering Univ. of Calgary	NSERCC/ CRSNGC	Linear and nonlinear behaviour of homogeneous and sandwich plate, shell and membrane structures and their use in housing, commercial and industrial construction.	1979-80 1980-81 1981-82	22,000 24,156 26,572		18
Glockner, P.G. Dept. of Mechanical Engineering Univ. of Calgary	NSERCC/ CRSNGC	Linear and non-linear behaviour of plate, shell and membrane structures and their use in housing, commercial and industrial construction.	1982-83 1983-84	32,500 34,450		18
Gou, M. Dep. de Genie mecanique Ecole Polytechnique	NRCC/CNRC	Evaluation de matériaux plastiques armés ou non soumis à de basses temperatures.	1974-75	4,000		18
Grierson, D.E. Dept. of Civil Engineering Univ. of Waterloo	NSERCC/ CRSNGC	Analysis and design of structures under extreme conditions.	1980-81 1981-82 1982-83 1983-84	14,000 15,500 17,903 18,977		18
Haas, R.C.G. Dept. of Civil Engineering Univ. of Waterloo	NRCC/CNRC NSERCC/ CRSNGC	Development of a pavement management system.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	13,000 14,830 15,210 22,000 23,320 24,136		18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Haas, R.C.G. Dept. of Civil Engineering Univ. of Waterloo	NRCC/CNRC	1) M.T.S. pressure system controls 2) Data acquisition units.	1976-77	17,571	18
Haas, R.C.G. Dept. of Civil Engineering Univ. of Waterloo	NSERCC/ CRSNGC	Pavement management system development.	1980-81 1981-82 1982-83	27,000 29,700 34,304	18
Haas, R.C.G. Dept. of Civil Engineering Univ. of Waterloo	NSERCC/ CRSNGC	Pavement management systems.	1983-84	43,672	18
Haenny, L. Dep. de Genie metallurgique Ecole Polytechnique	NSERCC/ CRSNGC	La fatigue dans les aciers de construction utilises a basse temperature.	1979-80 1980-81	7,235 7,944	18
Harris-Lowe, R.F.B. Dept. of Physics Royal Military College of Canada	NDD/MDN DRB/CRD	Thermal and hydrodynamic low temperature effects.	1976-77	5,500	18
Hawbolt, E.B. Dept. of Metallurgical Engineering Univ. of British Columbia	NRCC/CNRC NSERCC/ CRSNGC	1) Comparison of Bainitic and Widmanstatten growth 2) Impact cracking characteristics of Arctic X-70 pipeline steels.	1977-78 1978-79 1979-80	7,000 7,420 7,680	18
Hawbolt, E.B. Dept. of Metallurgical Engineering Univ. of British Columbia	NRCC/CNRC	Servihydraulic materials testing system.	1977-78	15,000	18
Hawbolt, E.B. Dept. of Metallurgical Engineering Univ. of British Columbia	NSERCC/ CRSNGC	1) Inclusion size and distribution vs fracture toughness. 2) Predicting structure and properties from thermal history and transformation data.	1980-81 1981-82 1982-83	10,000 11,000 12,705	18

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Hawbolt, E.B. Dept. of Metallurgical Engineering Univ. of British Columbia	NSERCC/ CRSNGC	1) Inclusion parameters vs elastic-plastic fracture toughness 2) Predicting transformation kinetics, predicting annealing kinetics 3) Development of nonprecious metal dental alloys.	1983-84	15,582		18
Hawker Siddeley Canada Incorporated Toronto, Ont.	SSC/ASC NDD/MDN	Study of low temperature jet fuel properties.	1983	223,342	(B.128)	18
Hipel, K.W. Dept. of Systems Design Engineering Univ. of Waterloo	NSERCC/ CRSNGC	Operational research in resource engineering.	1981-82 1982-83 1983-84	20,000 23,100 24,486		18
International Conference on Port and Ocean Engineering under Arctic Conditions (POAC) Memorial University of Newfoundland	NRCC/CNRC	Conference Grants/Subventions pour conferences.	1977-78	3,000		18
Ittipiboon, A. Dept. of Electrical Engineering Univ. of Manitoba	NSERCC/ CRSNGC	High efficiency feed for prime focus reflector antenna and the effects of ice and snow accretion on microwave antennas.	1983-84	11,660		18
Jacobs, P. Univ. de Montreal	NSERCC/ CRSNGC	Optimisation de formes de toiture en fonction des accumulations de neige.	1978-79	15,000		18
James F. MacLaren Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Review of Northern environmental engineering literature.	1978	3,989	(B.60)	18
Jarrett, P.M. Dept. of Civil Engineering Royal Military College	NDD/MDN DRB/CRD	Stabilization of compressible terrain.	1975-76	12,000		18
Jarrett, P.M. Dept. of Civil Engineering Royal Military College	NDD/MDN DRB/CRD	Ditching and cratering in frozen soils.	1979-80 1981-82	11,000 10,000		18

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Jarrett, P.M. Dept. of Civil Engineering Royal Military College	NDD/MDN DRB/CRD	Soil stabilization for runways in Northern Canada.	1981-82	24,000		18
Kay, B.D. Dept. of Land Resource Science Univ. of Guelph	EMRC	Instrumentation development for in situ measurement of unfrozen water and ice content of frozen soils.	1974-75	9,000		18
Kennedy, J.B.P. Dept. of Civil Engineering Univ. of Windsor	NSERCC/ CRSNGC	1) Control of cracking in continuous bridges of of composite construction 2) Reinforced earth abutments supporting soil-steel structures 3) Cold bending of HSS beams.	1983-84	48,750		18
Kiefte, H. Dept. of Physics Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	Scatting of radiation from: a) low temperature liquids and the corresponding solids, b) laser produced plasmas.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	6,000 7,800 9,000 12,000 12,720 13,165		18
Kiefte, H. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC NRCC/CNRC	Argion on laser, including exciter, and etalon.	1976-77	14,000		18
Kiefte, H. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Laser light scattering spectroscopy.	1980-81 1981-82 1982-83 1983-84	15,740 17,314 19,998 29,680		18
King, M.S. Dept. of Geological Sciences Univ. of Saskatchewan	SSC/ASC EMRC	Study of borehole logging device for measuring elastic properties of permafrost.	1974	2,020	(B.13)	18
King, M.S. Dept. of Geological Sciences Univ. of Saskatchewan	SSC/ASC EMRC	Development of laboratory equipment for the measurement of the thermal conductivity of permafrost materials.	1975	8,648	(B.31)	18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Kirk, D.W. Dept. of Civil Engineering Royal Military College	NDD/MDN DRB/CRD	Ditching and cratering in frozen soils.	1980-81	13,800		18
Korol, R.M. Dept. of Civil Engineering and Engineering Mechanics McMaster Univ.	NRCC/CNRC	1) Cold forming residual stresses and their effect on structures. 2) Vierendeel truss connections based on hollow structural sections. 3) Alternating plasticity approach to reinforced concrete structures.	1974-75	8,000		18
Kretschmer, D. Dep. de Genie mecanique Univ. Laval	NSERCC/ CRSNGC	Applied combustion.	1979-80 1980-81 1981-82 1982-83	7,500 8,500 9,350 10,799		18
Laboratoire de Beton Limitee Montreal, Que.	SSC/ASC EMRC	Durabilite du béton dans les eaux acides du Nord.	1981	14,168	(B.96)	18
Lachance, L. Dep. de Genie civil Univ. Laval	NDD/MDN DRB/CRD	Modules d'habitation préfabriqués en ferrociment pour les regions nordiques.	1974-75	4,500		18
Ladanyi, B. Dep. de Genie mineral Ecole Polytechnique	NRCC/CNRC	1) Resistance au poinçonnement des sols gelés. 2) Resistance mécanique du mélange silt-glace. 3) Stabilité des butees de fondations en rocher.	1974-75 1975-76 1976-77	16,300 18,595 19,971		18
Ladanyi, B. Dep. de Genie mineral Ecole Polytechnique	NRCC/CNRC NSERCC/ CRSNGC	1) Capacite portante des fondations profondes en pergelisol 2) Capacite portante des pieux caissons de haute capacité forés dans la roche 3) Problèmes geotechniques du stockage souterrain.	1977-78 1978-79 1979-80	23,650 25,069 25,946		18
Ladanyi, B. Dep. de Genie civil Ecole Polytechnique	NSERCC/ CRSNGC	Hot and cold temperature cabinet.	1978-79	15,000		18
Ladanyi, B. Centre d'Ingenierie nordique Ecole Polytechnique	SSC/ASC NRCC/CNRC	Etude bibliographique: essais sur place des fondations en terrain de pergélisol.	1980	6,500	(B.83)	18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Ladanyi, B. Dep. de Genie civil École Polytechnique	NSERCC/ CRSNGC	Propriétés géotechniques des sols gelés et leur comportement en relation avec les fondations et les souterrains.	1980-81 1981-82 1982-83	33,250 36,575 42,244		18
Ladanyi, B. Dep. de Genie civil École Polytechnique	NSERCC/ CRSNGC	Mesure des propriétés rhéologiques des sols gelés et des évaporites et leur utilisation dans la conception d'ouvrages.	1983-84	63,600		18
MacLeod, D.R. Dept. of Civil Engineering Carleton Univ.	NSERCC/ CRSNGC	1) Pavement recycling in northern climates 2) Pavement management systems for roads in isolated areas.	1980-81 1981-82 1982-83	8,500 9,350 9,499		18
Mackenzie, B.W. Dept. of Geological Sciences Queen's Univ. at Kingston	INAC/AINC	Base metal potential north of 60: economic viability, endowment quality, competitive position.	1983-84	9,950		18
McFarlane, H.W. Dept. of Civil Engineering Univ. of New Brunswick	NRCC/CNRC	Geotechnical investigation of muskeg as related to forest roads.	1974-75 1975-76	6,500 7,415		18
Metrex Instruments Limited Brampton, Ont.	SSC/ASC EC	Ice-free drag anemometer.	1983	66,667	(B.128)	18
Meyer Systems Incorporated Vancouver, B.C.	SSC/ASC DFO/MPO	Design and development of a depth digitizer for arctic hydrography.	1982	132,714	(B.110)	18
Mirza, F.A. Dept. of Civil Engineering and Engineering Mechanics McMaster Univ.	NSERCC/ CRSNGC	Development and applications of finite element method.	1982-83 1983-84	15,000 15,900		18
Monaro, S. and Del Bianco, W. Dep. de Physique Univ. de Montreal	NSERCC/ CRSNGC	Nuclear structure studies, x-ray techniques applied to environmental and medical work.	1982-83 1983-84	33,000 63,600		18
Morgernstern, N.R. Dept. of Civil Engineering Univ. of Alberta	INAC/AINC	To conduct a series of workshops which will result in the production of a report outlining the future directions for northern civil engineering research.	1976-77	2,500		18

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Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	NDD/MDN DRB/CRD	Study goetechnical military engineering in the Arctic.	1978-79 1979-80 1981-82	100,000 123,554 29,809		18
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC NDD/MDN	Analysis of geotechnical military engineering in the Arctic.	1979 1980	206,550 110,570	(B.70) (B.88)	18
Nasser, K.W. Dept. of Civil Engineering Univ. of Saskatchewan	NRCC/CNRC	1) Mechanism and prediction of the creep of concrete. 2) Analysis and design of large openings in concrete beams. 3) Properties of concrete exposed to subzero temperatures.	1974-75	9,000		18
Ng, S.F. Dept. of Civil Engineering Univ. of Ottawa	PWC/TPC	Literature search on towing and sinking of caissons in Arctic environment.	1982-83	5,000		18
Offshore Mechanics and Cold Ocean Engineering Univ. of Calgary	NSERCC/ CRSNGC	Conference Grants/Subventions pour conférences.	1982-83	3,200		18
Pallister Resource Management Limited Calgary, Alta.	SSC/ASC NRCC/CNRC	Study of ocean engineering in cold regions for the next five years.	1978	16,752	(B.59)	18
Parisel, C. et Warshaw, L.D. Dep. d'Architecture Univ. de Montréal	NSERCC/ CRSNGC	Optimisation des formes architecturales en fonction des accumulations de neige.	1981-82	5,000		18
Parisel, C. et Warshaw, L.D. Dep. d'Architecture Univ. de Montreal	NSERCC/ CRSNGC	Evaluation des batiments semi-enterres en regard des congeres.	1982-83 1983-84	7,365 7,807		18
Pick, R.J. Dept. of Mechanical Engineering Univ. of Waterloo	NRCC/CNRC	Finite element stress and vibration analysis of multi-component bodies.	1975-76 1976-77 1977-78	7,800 8,000 8,672		18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Pick, R.J. Dept. of Mechnical Engineering Univ. of Waterloo	NSERCC/ CRSNGC	Finite element and experimental techniques applied to camp site structures, pressure vessels, continuous casting and fracture mechanics.	1978-79 1979-80 1980-81	9,600 9,936 10,910	18
Pick, R.J. Dept. of Mechanical Engineering Univ. of Waterloo	NSERCC/ CRSNGC	Finite element analysis and photo-elasticity applied to fracture mechanics.	1981-82 1982-83 1983-84	15,000 17,325 18,365	18
Pigeon, M. Dep. de Génie civil Univ. du Laval	NRCC/CNRC	Effets des cycles gel-dégel sur le béton.	1974-75 1975-76 1976-77	4,500 5,135 5,265	18
Pigeon, M. Dep. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Effet du gel initial sur le béton soumis à de longs cycles de gel-dégel.	1978-79	7,000	18
Pigeon, M. Dép. de Génie civil Univ. Laval	NSERCC/ CRSNGC	La durabilité des bétons soumis à de longs cycles de gel-dégel et l'étude des propriétés du béton froid.	1979-80 1980-81 1981-82	8,000 8,784 9,662	18
Pigeon, M. Dep. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Resistance du béton aux cycles de gel-dégel.	1982-83	11,000	18
Plumtree, A. Dept. of Mechanical Engineering Univ. of Waterloo	NDD/MDN DRB/CRD	Low temperature fracture behaviour of trip steel.	1975-76	3,600	18
Raymond, G.P. Dept. of Civil Engineering Queen's Univ. at Kingston	NDD/MDN DRB/CRD	Stability of airfield and foundation pads on muskeg.	1974-75	5,000	18
Reddy, D.V. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NDD/MDN DRB/CRD	Dynamic analysts of ice-structure interaction.	1975-76	4,780	18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Reddy, D.V. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	1) Static and dynamic analyses of offshore nuclear power plant structures. (a) Floating platform (b) power plant and (c) breakwater 2) Stucture-water-soil interaction of offshore structures subjected to seismic, wave and ice forces 3) Static and dynamic analysis of artificial ice islands.	1976-77 1977-78 1978-79	12,000 13,008 13,788		18
Reddy, D.V. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	1) Offshore structure-medium interaction: a) buried pipelines b) foundation shakedown, and c) semisubmersibles/floating platforms using infinite elements 2) Fixed offshore platform analysis: a) response to non-stationary excitation and b) joint fatigue.	1979-80 1980-81 1981-82	18,500 20,313 22,344		18
Reddy, D.V. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	SSC/ASC EMRC	Corrosion fatigue of tubular joints for offshore structures.	1982	54,624	(B.106)	18
R.M. Hardy and Associates Limited Calgary, Alta.	SSC/ASC NRCC/CNRC	Study of civil engineering in cold regions for the next five years.	1978	19,994	(B.59)	18
Robillard, L. et Vasseur, P. Dep. de Genie civil Ecole Polytechnique	NSERCC/ CRSNGC	Effet des basses temperatures sur les systèmes de refroidissement utilises dans les reseaux electriques	1983-84	50,100		18
Rocque S. Dept. of Mechanical and Aerology Engineering Carleton Univ.	SSC/ASC DFE/MPE	Design and cost of an electromechanical ice core drill - Phase I.	1978	5,928	(B.65)	18
Rocque, S. Dept. of Mechnical and Aerology Engineering Carleton Univ.	SSC/ASC DFE/MPE	Fabrication of an electro-mechanical ice core drill - Phase II.	1979	21,060	(B.72)	18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Roux, R. Dep. de Genie civil École Polytechnique	NRCC/CNRC NSERCC/ CRSNGC	Influence du gel sur le développement de la résistance du béton frais.	1976-77 1977-78 1978-79	6,500 7,046 7,469		18
Salenas, J.J. Dept. of Civil Engineering Carleton Univ.	EC	Stress analysis of a timber truss under wind and snow loads - Cavalier Restoration Project, Halifax Citadel, Atlantic Region.	1980-81	2,000		18
Shafai, L. Dept. of Electrical Engineering Univ. of Manitoba	NSERCC/ CRSNGC	Applied electromagnetics and antennas.	1981-82 1982-83 1983-84	28,300 44,960 47,658		18
Sharan, S.K. Dept. of Engineering Laurentian Univ. of Sudbury	NSERCC/ CRSNGC	Dynamic analysis of submerged structures including the fluid-structure interaction effects.	1983-84	10,000		18
Sixieme Conference Internationale sur le Genie Maritime dans l'arctique (POAC) 81 et Symposium International sur la Glace (AIRH)	NSERCC/ CRSNGC	Conference Grants/Subventions pour conférences (Québec - juillet 1981).	1981-82	6,000		18
Sowerby, R. Dept. of Mechanical Engineering McMaster Univ.	NRCC/CNRC	Researches into the deformation and flow of metals during cold working operations.	1975-76 1976-77	9,750 10,000		18
Swan Wooster Engineering Company Limited Vancouver, B.C.	SSC/ASC PWC/TPC	Study of Arctic caisson towing and set-down requirements.	1983	25,000	(B.128)	18
Sykes, J.F. Dept. of Civil Engineering Univ. of Waterloo	NSERCC/ CRSNGC	Application of uncertainty analysis to performance assessment.	1982-83 1983-84	19,000 20,140		18
Sykes, J.F. and McBean, E.A. Dept. of Civil Engineering Univ. of Waterloo	NSERCC/ CRSNGC	Computer-aided design workstation.	1983-84	74,310		18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Tan, W. Toronto, Ont.	SSC/ASC EC	Technical and engineering support and consultation services for the Beaufort Sea instrumentation project.	1974	15,000	(B.16)	18
Taylor, H.W. Dept. of Physics Univ. of Toronto	NRCC/CNRC NSERCC/ CRSNGC	Nuclear spectroscopy with short-lived radioisotopes.	1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	15,000 15,000 15,000 10,000 11,000 11,000 5,300		18
Templeton Engineering Company Winnipeg, Man.	SSC/ASC EC	Assessment from an environmental engineering point of view of proposed environmental protection activities on the Mackenzie Valley Gas Pipeline Project.	1976	20,000	(B.35)	18
Templeton Engineering Company Winnipeg. Man.	SSC/ASC INAC/AINC	Research and documentation of winter road technology for Northern Canada.	1977	58,870	(B.47)	18
Van Dalen, K. Dept. of Civil Engineering Queen's Univ. at Kingston	NSERCC/ CRSNGC	A study of composite wood-concrete action in short span bridges 1) The feasibility of increasing span lengths of prestressed, precast concrete girders by introducing continuity 2) A study of the performance of shear connectors under cyclic loading at low temperatures.	1979-80 1980-81 1981-82	8,000 8,784 9,662		18
Vinogradov, A. Dept. of Civil Engineering Univ. of Calgary	NSERCC/ CRSNGC	Creep of structures-creep stability, structure-foundation interaction, creep properties of ice.	1983-84	12,270		18
Whitman, Benn and Associates Limited Halifax, N.S.	SSC/ASC EC	Development of a stable off-shore platform for air-sea interaction wind stress measurements.	1974	40,000	(B.10)	18
Whitman, Benn and Associates Limited Halifax, N.S.	SSC/ASC DFO/MPO	Engineering analysis of wave forces on the Bedford Institute of Oceanography stable platform and response of platform to these forces.	1982	20,000	(B.117)	18

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Whitman, Benn and Associates Limited Halifax, N.S.	SSC/ASC DFO/MPO	Design of mechanical package to house and protect an Arctic water level gauge device.	1982	13,750	(B.117)	18
Whittick, J. Ocean Engineering Information Centre Memorial Univ. of Newfoundland	SSC/ASC EMRC	Computer indexing of Canadian cold ocean engineering literature.	1983	30,011	(B.126)	18
Williams, D.R. Dept. of Civil Engineering Royal Military College of Canada	NDD/MDN DRB/CRD	Soil stabilization for runways in Northern Canada.	1980-81	6,000		18

ENVIRONMENT, POLLUTION (GENERAL), IMPACT ASSESSMENT, TECHNIQUES / ENVIRONNEMENT, POLLUTION (GÉNÉRAL), ÉVALUATION DES IMPACTS, TECHNIQUES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Allooloo, T. Pond Inlet, N.W.T.	SSC/ASC EC	Review of the Beaufort Sea Environmental Assessment.	1983	64,250	(B.118)	19
Andrews, M.G. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	Impact of various transport modes on northern areas.	1975-76	4,875		19
Arcon, Associated Resource Consultants Limited North Vancouver, B.C.	SSC/ASC DFE/MPE	Technical support to the Environment Assessment Review Office, related to the Haines Road-Alaska Highway Project.	1978	10,000	(B.58)	19
Arctic Laboratories Limited Inuvik, N.W.T.	SSC/ASC DFO/MPO	Study to determine the background levels of cadmium in Arctic marine sediments.	1980	17,715	(B.83)	19
Arctic Laboratories Limited Inuvik, N.W.T.	SSC/ASC EC	Geochemical analysis of surficial marine sediment from the southern Beaufort Sea.	1983	22,310	(B.127)	19
Beak Consultants Limited Richmond, B.C.	SSC/ASC EC	Compilation of data and assistance with preparation of specific section of the cadmium and lead status reports for B.C. and the Yukon.	1981	17,334	(B.100)	19
Bewtra, J.K. Dept. of Civil Engineering Univ. of Windsor	SSC/ASC EC	Collection and analysis of sulphur samples at Igloolik, Northwest Territories.	1982	5,000	(B.116)	19
Blishen, B. Dept. of Behavioral Researchs York Univ.	INAC/AINC	Socio-economic impact model for northern development.	1979-80	44,925		19

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Brown, M.C. Dept. of Geography Univ. of Alberta	INAC/AINC	Assessment of the impact of human use on Rabbitkettle Hot Spring - Nahanni National Park.	1978-79	8,990		19
Carmichael, F.C. Inuvik, N.W.T.	SSC/ASC EC	Member of the Beaufort Sea Hydro carbon production proposal environmental assessment panel.	1981	36,000	(B.99)	19
Case Existological Laboratories Limited Victoria, B.C.	SSC/ASC EC	Provision of technical assistance in the organization and participation in the Beaufort Sea baseline cruise as well as organization and execution of the beach pollutant program in connection with the Beaufort Sea Project.	1974	23,334	(B.10)	19
Charles Howard Associates Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Environmental quality assessment of streams in the vicinity of Bathurst Inlet, Northwest Territories.	1977	28,237	(B.53)	19
Cherian, G.M. Pathology Health Sciences Centre Univ. of Western Ontario	HWC/SBSC	Analysis of different forms of cadmium in Arctic seal liver, bovine liver and kidney an their role in cadmium toxicity.	1979-80 1980-81	24,692 32,071		19
Cherian, G.M. Pathology Health Sciences Centre Univ. of Western Ontario	HWC/SBSC	The chemical forms of dietary cadmium and their role in cadmium toxicity.	1981-82	17,900		19
Cordes, L.D. Dept. of Geography Univ. of Calgary	INAC/AINC	Environmental impact assessment - Wood Buffalo National Park.	1974-75	15,000		19
Cordillera Environmental Projects Limited Vancouver, B.C.	SSC/ASC EC	Support to secretariat of environmental assessment panels on Beaufort Sea, Vancouver International Airport, and Fraser River Shipping Channel.	1982	36,000	(B.111)	19
Craig, D.R. Carbon, Alta.	SSC/ASC EC	Member of the Beaufort Sea Hydro carbon production proposal environmental assessment panel.	1981	36,000	(B.99)	19

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
D.A. Westworth and Associates Limited Edmonton, Alta.	SSC/ASC EC	Study of the impact on wildlife on short-rotation management of boreal aspen stands - part of the Energy from the Forest (ENFORM) Program.	1980 1980	24,830 24,830	(B.91) (B.92)	19
Dick, J.G. Science Industrial Research Unit Concordia Univ.	SSC/ASC DFE/MPE	Determination of environmental emergencies associated with the petroleum industry.	1978	27,807	(B.68)	19
EPEC Consulting Western Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Research study on the impact of seismic exploration on muskrat populations on the Mackenzie delta.	1976	24,070	(B.37)	19
ESSA Environmental and Social Systems Analysts Limited Vancouver, B.C.	SSC/ASC EC	Workshop on the Beaufort Sea development scenarios using the adaptive Environmental Assessment and Management (AEAM) methodology.	1981	10,405	(B.96)	19
Environmental Management Associates Calgary, Alta.	SSC/ASC EC	Report on the long term environmental impact of resource road development in the Yukon and the Northwest Territories.	1983	19,990	(B.120)	19
Erickson, D. Inuvik, N.W.T.	SSC/ASC EC	Evaluation of social impact assessment issues for the Beaufort Sea Environmental Impact Assessment Panel review.	1982	14,000	(B.112)	19
Feuerverger Don Mills, Ont.	SSC/ASC EC	Statistical evaluation of long range transport of air pollutant models.	1983	3,600	(B.124)	19
Freedman, B. Dept. of Biology Dalhousie Univ.	NSERCC/ CRSNGC	Ecological effects of herbicides in forestry/ fertilization of Arctic tundra.	1983-84	20,140		19
Gill, D. Dept. of Geography Univ. of Alberta	NRCC/CNRC	Positive and negative aspects of artificial disturbances in the northern environment.	1974-75 1975-76	7,000 7,800		19
Gillespie, T. Dept. of Land Resource Science Univ. of Guelph	SSC/ASC EC	Study on the potential air pollution damage to primary producers in Arctic and sub-Arctic environments.	1976	26,660	(B.36)	19

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Godwin, C.I. Dept. of Geological Sciences Univ. of British Columbia	SSC/ASC INAC/AINC	Research and catalogue the zinc-lead deposits of the Northern Yukon Territory and adjacent Northwest Territory.	1975	7,405	(B.29)	19
Gruben, R. Tuktoyaktuk, N.W.T.	SSC/ASC EC	Western Arctic coordinator for Beaufort Sea hydrocarbon production proposal environmental assessment panel.	1981	59,000	(B.101)	19
Hansen, K. Aklavik, N.W.T.	SSC/ASC EC	Member of the Beaufort Sea Environmental Assessment Panel.	1982	64,750	(B.116)	19
Ivvalu, L. Igloolik, N.W.T.	SSC/ASC EC	Member of the Beaufort Sea Hydro Carbon Production proposal environmental assessment panel.	1981	36,000	(B.99)	19
James F. MacLaren Limited Willowdale, Ont.	SSC/ASC AECB/CCEA	Search for and recovery of radioactive fragments in certain areas of the Northwest Territories resulting from the re-entry of the Soviet satellite Cosmos 954 - phase II.		944,493		19
Johnston, T. Vancouver, B.C.	SSC/ASC EC	Identification of terrestrial environmental concerns in the Beaufort region.	1981	1,100	(B.94)	19
Katz, M. Dept. of Chemistry York Univ.	SSC/ASC NRCC/CNRC	Continuation study of the biological effects of poly-cyclic aromatic hydrocarbons and related environmental pollutants.	1978	21,055	(B.59)	19
LGL Limited Sidney, B.C.	SSC/ASC EC	Preparation of environmental guidelines for the MacKenzie Delta and Lancaster Sound.	1983	50,000	(B.120)	19
Langham, E.J. INRS Univ. du Québec à Quebec	NRCC/CNRC	1) Effets de la glace sur les polluants et produits chimiques naturels. 2) Exploitation des données de ERTS dans l'étude du Lac St-Jean.	1975-76	5,850		19
Lewis, M.C. Dept. of Biology York Univ.	SSC/ASC DFE/MPE	Study the accumulation and loss of atmospheric contaminants by Arctic vegetation.	1978	5,010	(B.63)	19
Lewis, M.C. Dept. of Biology York Univ.	SSC/ASC EC	Background aerosol sampling at a site in the Central Arctic on or near the Melville Peninsula.	1979	6,276	(B.75)	19

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Lueck, A. Whitehorse, Y.T.	SSC/ASC EC	Member of the Beaufort Sea Hydro carbon production proposal environmental assessment panel.	1981	36,000	(B.99)	19
M.M. Dillon Limited Yellowknife, N.W.T.	SSC/ASC DFE/MPE	Environmental assessment studies on northern power commission facilities at Repulse Bay, Grise Fiord and Seaviriit, Northwest Territories.	1977	25,324	(B.54)	19
MERC Management Limited Edmonton, Alta.	SSC/ASC EC	Review of the polychlorinated biphenyls (PCB) data in the Western and Northern region.	1981	12,504	(B.101)	19
Mackay, J.R. Vancouver, B.C.	SSC/ASC EC	Member of the Beaufort Sea Hydro carbon production proposal environmental assessment panel.	1981	36,000	(B.99)	19
Mackintosh, E.E. Dept. of Land Resource Science Univ. of Guelph	SSC/ASC EC	Determination of the impct of intensive recreation upon the soil and vegetation of camping grounds in the Boreal forest.	1976	17,000	(B.35)	19
Mackintosh, E.E. Dept. of Land Resource Science Univ. of Guelph	SSC/ASC EC	Study of the impact of intensive recreation upon the soil and vegetation of camping grounds in the Boreal Forest.	1976	16,978	(B.41)	19
Marvin Shaffer and Associates Limited White Rock, B.C.	SSC/ASC DFO/MPO	Public review of Yukon Placer Mining Guidelines hearings.	1983	3,424	(B.128)	19
McComas, F.T. Vancouver, B.C.	SSC/ASC EC	Evaluation of the environmental impact of proposed gas and oil pipeline in the Alaska Highway pipeline corridor.	1979	5,500	(B.81)	19
McGwire, M.K. Dept. of Political Science Dalhousie Univ.	SSC/ASC NDD/MDN	A study of the implications of maritime developments in the Canadian Arctic and offshore areas.	1974	12,500	(B.17)	19
McKenney, Jr., R.L. Ottawa, Ont.	SSC/ASC EC	Technical review of 50 manuals on hazardous spills.	1982	4,950	(B.111)	19
NEA Incorporated Beaverton, Oregon, USA	SSC/ASC EC	Quantification of impact of residential wood combustion on particular concentrations in Whitehorse, Yukon using chemical receptor modelling techniques.	1983	6,868	(B.120)	19

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Nieboer, E. Dept. of Chemistry Laurentian Univ. of Sudbury	NRCC/CNRC	1) Metal ions as structural probes of chemical and biological systems. 2) The medium effect. 3) The effects of atmospheric pollution on lichens.	1975-76	5,850		19
Nieboer, E. and Richardson, D.E.S. Dept. of Chemistry Laurentian Univ. of Sudbury	NRCC/CNRC NSERCC/ CRSNGC	The effects of air pollution on lichens.	1976-77 1977-78 1978-79 1979-80 1980-81	18,000 19,512 20,683 32,000 35,136		19
North/South Consultants Incorporated Winnipeg, Man.	SSC/ASC DFO/MPO	Determine the effects of lowered pH on swimming performance of arctic char, Salvelinus alpinus.	1983	3,210	(B.129)	19
Ontario Research Foundation Mississauga, Ont.	SSC/ASC EC	Chemical characterization of effluents from peat dewatering processes.	1983	50,000	(B.129)	19
P. Eby and Associates Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Study of the socio-economic implications on Yukon fisheries of the proposed Alaska highway gas pipeline.	1977	22,600	(B.52)	19
PWS Engineering Limited North Vancouver, B.C.	SSC/ASC DFE/MPE	Review of the environmental impact statement concerning the Alaska highway gas pipeline in the Yukon Territory.	1979	7,500	(B.72)	19
PWS Engineering Limited North Vancouver, B.C.	SSC/ASC EC	Review of the environmental impact statement for the Northern Pipeline Gas Project along the Alaska Highway and in Northeast British Columbia.	1979	8,500	(B.75)	19
Pederson, C. Calgary, Alta.	SSC/ASC EC	Post panel review of Shakwak Highway project environmental assessment review.	1981	7,500	(B.103)	19
Pullen, T.C. Ottawa, Ont.	SSC/ASC DFO/MPO	Special advisor to the Beaufort Sea Environmental Assessment Panel Review on issues relating to ship navigation in Arctic waters.	1983	8,000	(B.125)	19
R. & R. Research Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Study of the interaction between fur-bearing mammals and seismic lines.	1977	42,284	(B.50)	19
R. & R. Research Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Continuation study of the interaction between fur bearing mammals and seismic lines.	1978	25,967	(B.62)	19

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Roff, J.C. Dept. of Zoology Univ. of Guelph	DFO/MPO	The effects of man-made alterations in river discharge on the freshwater plumes and biota of estuarine ecosystems.	1979-80 1980-81	7,000 7,000		19
Roman, A.J. Toronto, Ont.	SSC/ASC EC	Special advisor on legal and procedural matters to the Beaufort Sea environmental assessment review panel.	1982	10,500	(B.115)	19
Senes Consultants Limited Willowdale, Ont.	SSC/ASC EC	Climatological analysis of the pollution potential of Riverdale, Yukon Territory.	1983	11,996	(B.120)	19
Serodes, J.B. et Moreau, G. Dép. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Impacts écologiques sur les écosystèmes aquatiques en milieu nordqiue.	1981-82 1982-83	15,000 15,000		19*
Singh, B. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Climatological impact studies partaining to the creation of large reservoirs, James Bay, Quebec.	1982-83	10,000		19*
Singh, B., Gray, J.T. et Gangloff, P. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Acquisition of a reliable and applicable data retrieval system.	1982-83	31,665		19*
Smith, F.B. Bracknell Berkshire, England	SSC/ASC EC	Evaluation and report on the atmospheric environment service (AES) research program on long-range transport of air pollution.	1981	1,050	(B.99)	19
Smith, M.W. Dept. of Geography Carleton Univ.	SSC/ASC INAC/AINC	A study of microclimatic and related energy exchange modifications associated with disturbances to the tundra in a High Arctic environment.	1974	15,520	(B.15)	19
Smith, R.A. and Plambeck, J.A. Dept. of Geology and Dept. of Chemistry Univ. of Alberta	SSC/ASC EC	Survey and analysis of the nature and extent of heavy metal contamination of soils and vegetation in the Yellowknife area.	1975	24,806	(B.29)	19
Sprague, J.B. Dept. of Zoology Guelph Univ.	NSERCC/ CRSNGC	Flux of cadmium through an arctic marine ecosystem.	1982-83	26,790		19

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Stutter, M. Whitehorse, Y.T.	SSC/ASC EC	Member of the Beaufort Sea Hydro carbon production proposal environmental assessment panel.	1981	36,000	(B.99)	19
Tester, F. Dept. of Environmental Design Univ. of Calgary	INAC/AINC	Polar Gas pipeline impact research and community information project, Keewatin District, N.W.T.	1977-78	98,267		19
Thomspon, J.P. Calgary, Alta.	SSC/ASC DFO/MPO	Public review of Yukon Placer Mining Guidelines hearings.	1983	2,057	(B.128)	19
Vanden Born, W.H. Dept. of Plant Sciences Univ. of Alberta	SSC/ASC EC	Study of the environmental impact of herbicide use in North American forestry.	1983	14,746	(B.127)	19
W.J. Francl and Associates Consulting Engineering Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Environmental assessment study of Cambridge Bay and Norman Wells airports.	1977	19,629	(B.54)	19
W.L. Wardrop and Associates Limited Winnipeg, Man.	SSC/ASC DFE/MPE	Environmental assessment studies of Ministry of Transport/Northern Canada Power Commission facilities at Baker Lake and the airport at Coral Harbour.	1977	23,705	(B.54)	19
Wein, R.W. Dept. of Biology Univ. of New Brunswick	SSC/ASC EMRC	Study of heavy metal uptake by tundra plants.	1977	5,029	(B.53)	19
Western Ecological Services Limited Edmonton, Alta.	SSC/ASC EC	Provision of a coordinator for the Canadian Man and the Biosphere (MAB) sub program, entitled Problems of Resource Development in Arctic and Other Isolated Areas.	1975	60,400	(B.28)	19
Westworth, D.A. Edmonton, Alta.	SSC/ASC INAC/AINC	Study on the impact of seismic exploration on muskrat populations on the Mackenzie Delta.	1977	58,210	(B.48)	19
Wilson, D.J. Dept. of Mechanical Engineering Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Atmospheric transport of pollution and snow drifting; heat and mass transfer in turbulent flow.	1974-75 1975-76 1976-77 1977-78 1978-79	7,000 7,985 9,000 9,756 10,341		19

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Wolfe, L.D.S. North Vancouver, B.C.	SSC/ASC EC	Analysis of relevant issues for the Beaufort Sea environmental assessment panel review.	1982	9,000	(B.117)	19
Wolfe, L.D.S. North Vancouver, B.C.	SSC/ASC EC	Continued analysis of relevant issues for the Beaufort Sea Environmental Assessment Panel review.	1983	40,100	(B.127)	19
Woo, M.K. Dept. of Geography McMaster Univ.	EC	Spatial variation of chemical loading in High Arctic snowpacks with special reference to airborne pollutants.	1981-82	12,000		19

ESTUARIAN ECOSYSTEMS / ÉCOSYSTÈMES ESTUARIENS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO

FAUNA : BIRDS / FAUNE AVIENNE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Allen, L. Ottawa, Ont.	SSC/ASC EC	Preparation of maps of James Bay and documentation to accompany waterfowl intensity-of-use maps for James Bay and Hudson Bay.	1975	6,000	(B.28)	21*
Angehrn, P.A. Ottawa, Ont.	SSC/ASC EC	Migratory Bird research on Lesser Snow Geese.	1975	12,279	(B.28)	21
Ankney, C.D. Dept. of Zoology Univ. of Western Ontario	SSC/ASC EC	Study into the variation in egg weight of lesser snow geese and its biological significance at McConnell River, Northwest Territories.	1975	5,368	(B.27)	21
Ankney, C.D. Dept. of Zoology Univ. of Western Ontario	EC	The variation in EGG weight of lesser snow geese and its biological significance at McConnell River, Northwest Territories.	1975-76	5,369		21
Ankney, C.D. Dept. of Zoology Univ. of Western Ontario	NRCC/CNRC	The cause and significance of egg weight variation in lesser snow geese.	1975-76	2,925		21
Ankney, C.D. Dept. of Zoology Univ. of Western Ontario	NRCC/CNRC NSERCC/ CRSNGC	Ecological energetics and feeding ecology of waterfowl.	1976-77 1977-78 1978-79	6,000 6,504 6,894		21
Ankney, C.D. Dept. of Zoology Univ. of Western Ontario	SSC/ASC EC	Study to determine the importance of nutrient reserves to Brant (branta bernicla) nesting and molting on Southampton Island, Northwest Territories.	1979	67,254	(B.75)	21
Ankney, C.D. Dept. of Zoology Univ. of Western Ontario	NSERCC/ CRSNGC	Ecological energetics and feeding ecology of birds.	1979-80 1980-81 1981-82 1982-83 1983-84	12,000 13,176 14 94 3 00 28,620		21

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Ankney, C.D. Dept. of Zoology Univ. of Western Ontario	EC	Resource partitioning between Arctic sterns (Sterna paradisaea) and Sabine's gulls (Xema sabini) during the breeding season.	1980-81	1,000		21
Ankney, C.D. Dept. of Zoology Univ. of Western Ontario	NSERCC/ CRSNGC	Ecological energetics and feeding ecology of birds/sex ratio egg sequence and egg weight of snow geese.	1983-84	4,240		21
Birkhead, T.K. Oxford, England	SSC/ASC EC	A study of thick-billed murres at Prince Leopold Island, Northwest Territories.	1976	13,500	(B.37)	21
CanTest Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Baseline data collection of migratory birds and other wildlife along the route of the proposed Alaska Highway Pipeline.	1978	68,000	(B.63)	21
Cooke, F. Dept. of Biology Queen's Univ. at Kingston	NRCC/CNRC	Causes and consequences of positive assortative mating in the lesser snow goose population, a genetic ecological and behavioural study.	1974-75	6,000		21
Cooke, F. Dept. of Biology Queen's Univ. at Kingston	EC	Ecology study snow geese.	1975-76	2,500		21
Cooke, F. Dept. of Biology Queen's Univ. at Kingston	EC	Study on the breeding biology and population turnover of lesser snow geese at La Peruse Bay, Manitoba.	1975-76	15,548		21
Cooke, F. Dept. of Biology Queen's Univ. at Kingston	NRCC/CNRC	A genetical, ecological and behavioural study of the lesser snow goose population.	1975-76 1976-77 1977-78	11,700 12,000 13,003		21
Cooke, F. Dept. of Biology Queen's Univ. at Kingston	SSC/ASC EC	Population Studies and mortality estimates in snow geese.	1976	165,000	(B.38)	21
Cooke, F. Dept. of Biology Queen's Univ. at Kingston	NSERCC/ CRSNGC	A genetical ecological and behavioural study of the Lesser Snow Goose population.	1978-79 1979-80 1980-81	25,000 25,875 28,411		21

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Cooke, F. Dept. of Biology Queen's Univ. at Kingston	NSERCC/ CRSNGC	A long term genetical, ecological and behavioural study of a Lesser Snow Goose population.	1981-82 1982-83 1983-84	40,000 53,200 62,964		21
Cooke, F. Dept. of Biology Queen's Univ. at Kingston	NSERCC/ CRSNGC	Logistic communication package for Arctic field facility.	1981-82	11,513		21
Cooke, F. Dept. of Biology Queen's Univ. at Kingston	EC	The importance of male parental care in willow ptarmigan at LaPerouse Bay, Manitoba	1983-84	2,000		21
Cooke, F. et al. Dept. of Biology Queen's Univ. at Kingston et al.	NSERCC/ CRSNGC	Transportation package.	1982-83	8,350		21
Cooke, F. et al. Dept. of Biology Queen's Univ. at Kingston et al.	NSERCC/ CRSNGC	Infrastructure support for Queen's University Tundra Biology Station.	1983-84	26,920		21
Cooke, F. and White, B.N. Dept. of Biology Queen's Univ. at Kingston	NSERCC/ CRSNGC	Application of recombinant DNA probes to the measurement of gene flow in Lesser Snow Goose populations	1982-83	13,750		21
D.A. Blood & Associates Limited Lantzville, B.C.	SSC/ASC DFO/MPO	Scientific review and editing of migratory bird data collected along the proposed Alaska Highway gas pipeline in 1977.	1980	3,200	(B.85)	21
DeBlock, B.J. Saskatoon, Sask.	SSC/ASC EC	Data analysis and mapping of Arctic geese.	1983	4,500	(B.119)	21
Dennison, P. Teslin, Y.T.	SSC/ASC EC	Study on migratory birds and migratory bird habitat in the Lower Nisultin River Valley.	1979	4,420	(B.77)	21

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Desser, S.S. Dept. of Parasitology Univ. of Toronto	NRCC/CNRC	1. Susceptibility of different races of Canada geese branta canadensis to infection with leucocytozoon simondi 2. Studies on the life cycles, physiology and ultrastructure of protozoon parasites.	1975-76	8,190		21
Dick, T.A. Dept. of Zoology Univ. of Manitoba	NRCC/CNRC	Trichinella spiralis, biological characteristics of northern and temperate strains. Parasite interactions, T. spiralis and Hymenolepis diminuta. Parasites of sharp grouse Pediocetes phasianellus campestris.	1977-78	9,756		21
Envirocon Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Habitat and population assessment of migratory birds and other wildlife along the route of the proposed Alaska Highway pipeline.	1977	50,000	(B.52)	21
Gaston, A.J. Oxford, England	SSC/ASC EC	A study of seabirds at Prince Leopold Island, Northwest Territories.	1975	5,500	(B.28)	21
Gaston, A.J. Oxford, England	SSC/ASC DFE/MPE	Scientific studies on the thick-billed murre (uria lomvia) and black guillemot (Cepphus grylle) at Prince Leopold Island and vicinity, N.W.T. and preparation of program designs and data analysis procedures.	1977	13,482	(B.52)	21
Geale, J. Port Hope, Ont.	SSC/ASC EC	Digges Sound Thick-Billed Murre Studies 1980: Adult diet and feeding areas.	1980	3,574	(B.87)	21
Gregory Geoscience Limited Ottawa, Ont.	SSC/ASC EC	Provision of a report on the dates of snow clearance from goose nesting areas in the Northwest Territories.	1975	1,500	(B.28)	21
Gregory Geoscience Limited Ottawa, Ont.	SSC/ASC EC	Monitoring and report of snow-melt on goose nesting grounds in the Northwest Territories during 1976 breeding season.	1976	2,900	(B.38)	21
Hogarth, J.E. Dept. of Biology Queen's Univ. at Kingston	EC	Breeding biology of snow geese.	1974-75	6,800		21

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Hohn, E.O. Dept. of Physiology Univ. of Alberta	NSERCC/ CRSNGC	Hormonal control of seasonal colour in ptarmigan.	1980-81 1981-82 1982-83	2,200 2,420 2,795		21
Hohn, E.O. Dept. of Physiology Univ. of Alberta	NSERCC/ CRSNGC	1) Endocrine control of ptarmigan Plumage colour 2) Thymus and avian moult.	1983-84	2,200		21
Jefferies, R.L. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	1) Nitrogen and carbon fluxes between geese and vegetation in a grazed Arctic salt marsh 2) Taxonomic description of Salicornia euripaea egg.	1980-81 1981-82 1982-83	13,000 14,300 16,517		21
Jefferies, R.L. Dept. of Botany Univ. of Toronto	EC	The effect of snow geese on the availability of nitrogen for primary production in a grazed Arctic salt marsh.	1982-83	2,000		21
Jefferies, R.L. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	The effects of lesser snow geese on tundra primary production.	1982-83 1983-84	9,000 9,540		21
Jefferies, R.L. Dept. of Botany Univ. of Toronto	EC	The effect of grazing by lesser snow geese on net primary production in an Arctis salt marsh.	1983-84	2,000		21
Jefferies, R.L. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	The effects of lesser snow geese on tundra primary production. Genecology of the Salicornia europaea complex. Phenotypic plasticity in Triglochin maritime.	1983-84	29,680		21
Keppie, D.M. Dept. of Biology Univ. of New Brunswick	NRCC/CNRC	Effects of dispersal on recruitment into breeding populations of spruce grouse and Arctic hare.	1977-78	6,000		21
Keppie, D.M. Dept. of Biology Univ. of New Brunswick	NSERCC/ CRSNGC	Recruitment into animal breeding populations: spruce grouse, Arctic Hare, woodcock.	1978-79 1979-80 1980-81	6,000 6,210 6,819		21
Kragh, W.D. Vancouver, B.C.	SSC/ASC EC	Survey of fall migrant birds on the Alaskan national wildlife area.	1983	2,000	(B.127)	21

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
LGL Limited Edmonton, Alta.	SSC/ASC EC	A study of the seabird population in the coastal Beaufort Sea.	1974	38,942	(B.18)	21
LGL Limited Edmonton, Alta.	SSC/ASC EC	Radar investigations of bird migration along the Beaufort Sea coast.	1975	71,630	(B.25)	21
Leatherland, J. Dept. of Zoology Univ. of Guelph	EC	Study of snow goose development physiology.	1974-75	2,700		21
Leatherland, J. Dept. of Zoology Univ. of Guelph	EC	Endocrine involvement in regulation of development and maturation of lesser snow geese.	1975-76	3,000		21
Lein, M.R. Dept. of Biology Univ. of Calgary	EC	To conduct a study of the ecology and behaviour of wintering snowy owls.	1977-78	2,400		21
Létourneau, J. Ste-Foy, Qué.	SSC/ASC EC	Dénombrement d'oies sur photos de colonies prises dans l'Arctique.	1979 1980	2,500 812	(B.81) (B.85)	21
Lien, J. Dept. of Physiology Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	Orientation in herring gulls and leach's petrels.	1976-77 1977-78 1978-79	7,500 8,130 8,618		21
Maher, W.J. Dept. of Biology Univ. of Saskatchewan	INAC/AINC	Study of golden bald eagles - Churchill River.	1974-75	500		21
Milligan, P. Whitehorse, Y.T.	SSC/ASC DFE/MPE	Collection and analysis of data on migrating birds along the proposed Alaska highway pipeline alignment in the Yukon Territory and British Columbia.	1977	3,000	(B.56)	21
Milligan, P. Whitehorse, Yukon	SSC/ASC DFE/MPE	Collection and analysis of data on migrating birds in the Southern Yukon during the 1978 Spring migration period.	1978	3,030	(B.63)	21

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Montgomerie, R.D. Dept. of Biology Queen's Univ. at Kingston	NSERCC/ CRSNGC	Tactics of reproduction in High Arctic birds.	1983-84	29,380		21
Morris, R.D. Dept. of Biological Sciences Brock Univ.	NRCC/CNRC NSERCC/ CRSNGC	Factors affecting the reproductive success of colonial seabird species.	1976-77 1977-78 1978-79	6,500 7,046 7,469		21
Morris, R.D. Dept. of Biological Sciences Brock Univ.	NRCC/CNRC NSERCC/ CRSNGC	Aspects of the foraging and reproductive ecology of colonial seabird species.	1979-80 1980-81 1981-82	13,000 14,274 15,701		21
Northern Alberta Institute of Technology Edmonton, Alta.	SSC/ASC EC	Study of migratory bird population and oceanographic data in Jones Sound.	1980	9,400	(B.87)	21
Northern Biomes Limited Whitehorse, Y.T.	SSC/ASC EC	Continuation of ecological studies of waterfowl in the Yukon River basin.	1983	59,991	(B.123)	21
Nudds, T.D. Dept. of Zoology Univ. of Guelph	NSERCC/ CRSNGC	Waterfowl community dynamics in variable environments.	1981-82 1982-83 1983-84	15,000 17,325 18,365		21
Osborne, C. Vancouver, B.C.	SSC/ASC DFE/MPE	Collection and analysis of data on migrating birds along the proposed Alaska highway pipeline alignment in the Yukon Territory and British Columbia.	1977	3,250	(B.56)	21
Prevett, L.A. Ottawa, Ont.	SSC/ASC EC	Research on the distribution, numbers, ecological relationships and related behaviour of geese and other birds of the coastal zone in the High Arctic.	1974	12,300	(B.14)	21
Quintilian Services Edmonton, Alta.	SSC/ASC EC	Preparation of reports on waterfowl of the Beaufort Sea region.	1983	6,500	(B.121)	21

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
R.I.M. Ecology Limited Winnipeg, Man.	SSC/ASC EC	Study of Ross' Geese to determine their distribution throughout the non-breeding season.	1975	82,000	(B.29)	21
Renewable Resources Consulting Services Limited Edmonton, Alta.	SSC/ASC EC	Determination of numbers and species of migratory birds and pelagic species which inhabit open waters in the Beaufort Sea.	1984	193,103	(B.14)	21
Rising, J.D. Dept. of Zoology Univ. of Toronto	EC	The biology and comparative ecology of the Lesser golden plover (Pluvialis dominica) on their breeding grounds, austral wintering grounds and on migration.	1981-82	2,250		21
Shackleton, D.M. Dept. of Animal Science Univ. of British Columbia	EC	Productivity and nesting density in the tufted puffin (Lunda cirrhata).	1980-81 1981-82	2,500 2,250		21
Shapiro, L.J. Dept. of Psychology Univ. of Manitoba	NSERCC/ CRSNGC	Attachment behaviour in waterfowl and the mechanisms mediating in-with an emphasis on the effects of the brood in the mallard duck and the giant Canada goose.	1981-82 1982-83 1983-84	7,500 8,663 9,183		21
Smith, J.N.M. Dept. of Zoology Univ. of British Columbia	EC	The role of female behaviour in population regulation in willow ptarmigan.	1980-81 1981-82	2,500 2,250		21
Theberge, J.B. Dept. of Ecology Univ. of Waterloo	INAC/AINC	Inventory of raptors in the Slims River Valley-Kluane National Park.	1978-79	5,000		21
Thomas, V.G. Dept. of Zoology Univ. of Guelph	NSERCC/ CRSNGC	A study of condition factors in ptarmigans in relation to reproduction.	1978-79 1979-80 1980-81	7,960 8,239 9,046		21
Van Hees, V. Burnaby, B.C.	SSC/ASC EC	Study of the potential threat to migratory bird habitat in British Columbia and the Yukon Territory.	1982	4,000	(B.106)	21
Van Hees, V. Burnaby, B.C.	SSC/ASC EC	Study of options available for the problems associated with preserving habitat in the Pacific and Yukon region.	1982	4,500	(B.111)	21
Weber, W. Burnaby, B.C.	SSC/ASC EC	Survey of migrant and breeding birds on the Alaskan National Wildlife area.	1982	3,250	(B.111)	21

FAUNA : FISHES / FAUNE ICHTYENNE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Adamski, V. Winnipeg, Man.	SSC/ASC DFO/MPO	Carry out a lakes survey and monitor a counting fence in the vicinity of Tuktoyaktuk, Northwest Territories.	1982	7,800	(B.111)	22
Aquatic Environments Limited Calgary, Alta.	SSC/ASC DFE/MPE	Detailed review of the systematics and ecology of the western Arctic form of the Arctic char.	1978	40,611	(B.67)	22
Arai, H.R. Dept. of Biology Univ. of Calgary	EC	Preliminary studies on the animal parasites of fishes of selected portions of the Yukon and Alsek Rivers.	1974-75	3,800		22
Balon, E.K. Dept. of Zoology Univ. of Guelph	NRCC/CNRC	Ecology and functional morphology of embryos and larvae of fishes, their ability to respond to and survive under some natural and cultural stresses from arctic to temperate eco-systems.	1974-75	12,000		22
Balon, E.K. Dept. of Zoology Univ. of Guelph	NRCC/CNRC	Ecology and functional morphology of embryos and larvae of fishes, their ability to respond to and survive under some natural and cultural stresses from arctic to temperate ecosystems: assessments of ecological production of fish populations.	1975-76 1976-77 1977-78	11,700 12,000 13,008		22
Breton-Jones, M.A. Lachine, Qué.	SSC/ASC EC	Identification et traitement de prélèvements de poissons marins puis analyse subsequente dans le cadre de l'étude de l'environnement marin de l'Arctique oriental.	1979	6,424	(B.77)	22
Brown, P. Whitehorse, Yukon	SSC/ASC FO/PO	Study of fish distributions for the Yukon River Basin project.	1982	1,520	(B.109)	22
Cronkite, G. Whitehorse, Yukon	SSC/ASC DFO/MPO	Salmon tagging and biological sampling on the Taku River.	1981	1,800	(B.103)	22

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Cronkite, G. Whitehorse, Yukon	SSC/ASC DFO/MPO	Preparation of a spaghetti tagging field program for salmon in the Yukon River.	1983	5,400	(B.104)	22
Curtis, M.A. Dept. of Parasitology McGill Univ.	EC	A quantitative model of host-parasite interactions with populations of the Arctic char.	1977-78	10,000		22*
Curtis, M.A. Dept. of Parasitology McGill Univ.	DFO/MPO	The effects of diphyllobothrium plerocercoids on the potential yield of arctic char, salvelinus alpinus.	1978-79	8,000		22*
Curtis, M.A. Dept. of Parasitology McGill Univ.	DFO/MPO	Effects of Diphyllobothrium plerocercoids in population of the Arctic char, Salvelinus alpinus.	1979-80	6,000		22*
D'Estimauville Whitehorse, Yukon	SSC/ASC DFO/MPO	Creel census of selected Yukon lakes.	1981	1,500	(B.103)	22
Dickman, M.D. Dept. of Biological Sciences Brock Univ.	NRCC/CNRC	Natural and man induced factors affecting the past productivity and species composition of selected Canadian Shield Lakes.	1976-77	8,500		22
Galbraith, D.F. Ste-Anne-de-Bellevue, Que.	SSC/ASC EC	Study of samples and specimens of fish collected from Tuktoyaktuk Harbour and Tuktoyaktuk Peninsula.	1974	4,000	(B.21)	22
Hopky, G. Winnipeg, Man.	SSC/ASC DFO/MPO	Analyse biological data collected during the 1981 fish mark-recapture study carried out at Tuktoyaktuk, Northwest Territories.	1981	2,800	(B.104)	22
Horler, A. Whitehorse, Yukon	SSC/ASC DFO/MPO	Operation of a salmon counting fence on the Klukshu River, Yukon Territory.	1980	1,000	(B.91)	22
Howard Paish and Associates Limited Burnaby, B.C.	SSC/ASC DFO/MPO	Development of a strategic plan and process for a comprehensive fish habitat inventory in the Pacific and Yukon regions.	1982	7,000	(B.109)	22
Howard Paish and Associates Limited Burnaby, B.C.	SSC/ASC DFO/MPO	Development of a strategic plan for implementation and priorization of habitat improvement methods in the Pacific and Yukon regions.	1982	7,000	(B.114)	22

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Innes, W. Kitkatla, B.C.	SSC/ASC DFO/MPO	Investigation of parasites and scales of salmon (International Tagging Program).	1983	1,100	(B.126)	22
Jones, M.A.B. Dorval, Que.	SSC/ASC DFE/MPE	Assembly, collation and analysis of file data on Arctic marine fishes.	1977 1978	10,500 13,650	(B.50) (B.62)	22
Kott, E. Dept. of Biology Wilfrid Laurier Univ.	NRCC/CNRC NSERCC/ CRSNGC	A taxonomic revision of the holarctic species of lampreys.	1977-78 1978-79 1979-80	4,000 4,240 4,388		22
Kott, E. Dept. of Biology Wilfrid Laurier Univ.	NSERCC/ CRSNGC	1) Taxonomic revision of holarctic lampreys. 2) Reproductive biology of redhorse suckers.	1980-81 1981-82 1982-83	3,000 3,300 3,000		22
LGL Limited Toronto, Ont.	SSC/ASC EC	Food sample analysis of dovekies from Northern Greenland.	1980	9,747	(B.87)	22
LGL Limited Sidney, B.C.	SSC/ASC DFO/MPO	Data inventory and preliminary evaluation of fishes in the Canadian Beaufort Sea.	1981	7,500	(B.97)	22
Lindsey, C.C. Dept. of Animal Resource Ecology Univ. of British Columbia	NSERCC/ CRSNGC	Adaptive significance of variation in fishes.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	15,000 17,110 17,550 20,500 21,730 22,491 9,800 39,000 45,045 47,748		22
Low, C.J. Nanaimo, B.C.	SSC/ASC DFO/MPO	Identification and enumeration of stomach contents of Arctic grayling round whitefish.	1980	1,200	(B.92)	22
MacDonald, G. Winnipeg, Man.	SSC/ASC DFO/MPO	Analysis and field survey on northern fish resources, Arctic Land Use Mapping Project.	1979	11,000	(B.75)	22
MacDonald, G. Winnipeg, Man.	SSC/ASC DFO/MPO	Collect fish life history data in the Region of Inuvik, Arctic Red River and Fort Good Hope, Northwest Territories.	1982	4,515	(B.114)	22
Martin, K.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Conduct a study of marked fish specimens from four experimental lakes in Saqvaqjuac, Northwest Territories area.	1981	3,600	(B.104)	22

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Martin, K.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Analysis of the stomach contents of Arctic char and lake trout from the Saqvaqjuac Nutrient Addition Project.	1982	9,600	(B.111)	22
Martin, K.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Analysis of fish data at Saqvaqjuac, Northwest Territories.	1982	9,600	(B.116)	22
McAllister, D.E. Dept. of Biology Univ. of Ottawa	NSERCC/ CRSNGC	Phenetic and cladistic analysis of the Holarctic cod genus Gauds.	1982-83 1983-84	9,000 9,540		22
Mckenzie, J. Whitehorse, Yukon	SSC/ASC DFO/MPO	Taku River salmonid tagging and sampling investigations.	1983	9,000	(B.126)	22
Milligan, P. Whitehorse, Yukon	SSC/ASC DFO/MPO	Study of fish distributions for the Yukon River Basin.	1982	1,462	(B.110)	22
Milligan, P. Whitehorse	SSC/ASC DFO/MPO	Planning, supervision and analysis of Chinook and Chum salmon tagging program in the Yukon River basin.	1982 1983 1983	29,860 6,000 22,750	(B.113) (B.124) (B.126)	22
Milne, D. Whitehorse, Yukon	SSC/ASC DFO/MPO	Salmon tagging and biological sampling on the Stikine River.	1981	1,200	(B.103)	22
Mohr, L. Winnipeg, Man.	SSC/ASC DFO/MPO	Collect and analyze population and life history data for several fish species from Elsa and Saqvaqjuac Research Stations.	1983	23,500	(B.122)	22
Momot, W.T. Dept. of Biology Lakehead Univ.	DFO/MPO	Use of mean age - age to maturity index in evaluating the experimental management of walleye (Stizostedion v. vitreum) in two Boreal lakes.	1980-81	12,000		22
Momot, W.T. Dept. of Biology Lakehead Univ.	DFO/MPO	Evaluation of the experimental management of walleye, Stizostedion v. vitreum in two boreal lakes using the mean age - age to maturity index	1981-82	13,000		22
Mongeon, C. Whitehorse, Yukon	SSC/ASC DFO/MPO	Biological sampling of salmon caught on the Stikine River.	1980	1,000	(B.91)	22
Munson, T. Whitehorse, Yukon	SSC/ASC DFO/MPO	Operation of a salmon counting fence on the Klukshu River, Yukon Territory.	1980 1980	1,000 1,000	(B.91) (B.92)	22
Munson, T. Whitehorse, Yukon	SSC/ASC DFO/MPO	Biological sampling program on salmon caught in the Yukon River.	1981	1,200	(B.103)	22

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Nelson, J.S. Dept. of Zoology Univ. of Alberta	NRCC/CNRC	A) Pelvic skeletal deficiency in sticklebacks. b) Hybridization and isolating mechanisms in northern fishes. c) Ecology of Alberta and N.W.T. fishes d) Systematic studies of fishes.	1974-75	7,000		22
North/South Consultants Incorporated Winnipeg, Man.	SSC/ASC DFO/MPO	Conduct surveys of resident fish populations in three streams scheduled to be crossed by the Norman Wells pipeline north of Wrigley, Northwest Territories.	1983	17,739	(B.129)	22
Northern Natural Resource Services Limited Vancouver, B.C.	SSC/ASC EC	Analysis of Yukon River and Whitehorse aquatic resources data.	1976	4,500	(B.37)	22
Northern Natural Resource Services Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Study to evaluate the fisheries resources adjacent to the proposed Alaska highway pipeline.	1977	86,365	(B.52)	22
Northern Natural Resource Services Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Study of the fisheries resources along the Klondike Highway and Robert Campbell Highway in the Yukon Territory.	1977	89,046	(B.55)	22
Oguss, E. Burnaby, B.C.	SSC/ASC DFO/MPO	Experimental design of a salmon mark and recapture program on the Yukon River.	1982	580	(B.111)	22
Power, G. Dept. of Biology Univ. of Waterloo	NSERCC/ CRSNGC	The structure and stability of northern fish stocks.	1980-81 1981-82	14,000 11,000		22
Ratynski, R. Winnipeg, Man.	SSC/ASC DFO/MPO	Analyze biological data collected during the 1981 gillnetting and trawling program at Tuktoyaktuk, Northwest Territories.	1981	2,800	(B.104)	22
Ratynski, R. Winnipeg, Man.	SSC/ASC DFO/MPO	Inventory and preliminary evaluation of data on fish in the Canadian Beaufort Sea.	1982	4,500	(B.106)	22
Rich, L.M. Pointe-Claire, Qué.	SSC/ASC EC	Etude des poissons de l'Arctique dans le cadre du programme d'étude de l'environnement marin de l'Arctique oriental (EAMES).	1979	9,660	(B.77)	22

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Rublee, B. Heffley Creek, B.C.	SSC/ASC DFO/MPO	Organization, supervision and analysis of chinook radio-tagging program in Yukon River Basin.	1983	15,070	(B.124)	22
Speed, H. Edmonton, Alta.	SSC/ASC DFO/MPO	Collection and analysis of gillnetted fish in King Point area, Yukon.	1982	4,686	(B.114)	22
Stewart, D.B. Pinawa, Man.	SSC/ASC DFO/MPO	Study and field survey on northern fish resources, Arctic Land Use Mapping Project.	1979	5,000	(B.76)	22
Thompson, A. Whitehorse, Yukon	SSC/ASC DFO/MPO	Sampling and enumeration of salmon at the Klukshu River counting fence.	1981	1,800	(B.103)	22
White, S.L. Vancouver, B.C.	SSC/ASC DFO/MPO	Determination of fish size and species using echo location equipment in King Point area, Yukon.	1982	4,686	(B.114)	22

FAUNA : MARINE MAMMALS / FAUNE : MAMMIFÈRES MARINS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Aquafarm Consultants Limited Nanaimo, B.C.	SSC/ASC DFO/MPO	Study of captive fur seals.	1981	31,467	(B.99)	23
Aquafarm Consultants Limited Nanaimo, B.C.	SSC/ASC DFO/MPO	Analysis of trends in population parameters of northern fur seals. parameters of northern fur seals.	1982	4,520	(B.111)	23
Aquafarm Consultants Limited Nanaimo, B.C.	SSC/ASC DFO/MPO	Study to determine the estrous cycle of captive female fur seals.	1980	18,600	(B.88)	23
Attendu, D. Parc national de Forillon, Qué.	SSC/ASC DFO/MPO	Examen et rassemblement des données existantes sur les mammifères marins de la région de l'île Victoria.	1981	5,175	(B.94)	23
Carter, E. Guelph, Ont.	SSC/ASC DFO/MPO	Review and development of techniques to analyze data from grey seal tagging program.	1982	2,225	(B.114)	23
Collins, C.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Review and compile information concerning the composition, characteristics and habitat of marine mammals in the South Victoria Island/north east Keewatin area.	1982	5,016	(B.112)	23
Collins, C.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Gather, review and compile information on marine mammals in the Melville Peninsula/Southampton Island area.	1983	6,205	(B.123)	23
Couvillion, K. Pointe-Claire, Qué.	SSC/ASC DFE/MPE	Etude de la morue de l'Arctique dans le régime alimentaire du phoque annele.	1977	2,400	(B.51)	23
Dueck, L.P. Winnipeg, Man.	SSC/ASC DFO/MPO	Prepare tooth and jaw sections of narwhal, beluga and walrus from field samples for age determination.	1982	2,100	(B.117)	23
Ellis, G. Surrey, B.C.	SSC/ASC EC	Investigation of the reproductive cycle of the fur seal.	1975	8,500	(B.32)	23

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
F.F. Slaney and Company Limited Vancouver, B.C.	SSC/ASC EC	Study of the Beluga and Bowhead whales in the South-eastern Beaufort Sea.	1976	11,250	(B.45)	23
F.F. Slaney and Company Limited Vancouver, B.C.	SSC/ASC DFO/MPO	Spring migration of bowhead and white whales in the Beaufort Sea.	1978	180,252	(B.64)	23
Gauthier, D. Laval, Qué.	SSC/ASC DFO/MPO	Tabulation de données sur le comportement, la répartition et la structure démographique des baleines blanches de l'anse Cunningham, de l'île Somerset et du détroit de Lancaster, dans les Territoires du Nord-Ouest.	1980	1,000	(B.92)	23
Geraci, J.R. Dept. of Pathology Univ. of Guelph	SSC/ASC EC	A controlled metabolic study of the population dynamics and the feeding of the ringed seal.	1974	15,000	(B.17)	23
Geraci, J.R. Dept. of Pathology Univ. of Guelph	EC	The nature and influence of stress as mortality factor in seal populations in the Canadian Arctic.	1977-78 1978-79	12,000 12,000		23
Geraci, J.R. Dept. of Pathology Univ. of Guelph	DFO/MPO	Nature and consequence of stress in free-ranging seals.	1979-80	9,000		23
Geraci, J.R. and Gallivan, G.J. Dept. of Pathology Univ. of Guelph	NSERCC/ CRSNGC	Lungworm as a limiting factor in ringed seal productivity.	1983-84	7,420		23
Greendale, R. Ste-Geneviève, Qué.	SSC/ASC DFO/MPO	Observations des mouvements des mammifères marins, Ile Bylot, Territoires du Nord-Ouest.	1979	5,852	(B.79)	23
Hammill, M.O. Senneville, Qué.	SSC/ASC DFO/MPO	Collaboration sur les lieux à la recherche et à l'analyse de données émanant d'études de comportement des phoques de l'Arctique, dans le cadre de l'étude du milieu marin de l'Arctique est.	1979	4,095	(B.77)	23
Hammill, M.O. Guelph, Ont.	SSC/ASC DFO/MPO	Behavioural studies of beluga whales in Northern Quebec and analysis of beluga whale results in the high Arctic.	1983	13,890	(B.123)	23
Hubert, J.J. Guelph, Ont.	SSC/ASC DFO/MPO	Review and development of techniques to analyze data from grey seal tagging program.	1982	2,775	(B.114)	23

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
LGL Limited Sidney, B.C.	SSC/ASC DFO/MPO	Beaufort Sea whale data inventory and compilation.	1982	12,095	(B.117)	23
LGL Limited Sidney, B.C.	SSC/ASC DFO/MPO	Data compilation and appraisal of Beaufort Sea whales.	1983	8,855	(B.127)	23
Lavigne, D.M. Dept. of Zoology Guelph Univ.	NSERCC/ CRSNGC	Ecological interactions of harp seals in the Eastern Canadian Arctic.	1982-83 1983-84	5,000 5,830		23
McCullough, W.E.B. Pointe-Claire, Que.	SSC/ASC EC	A study of the behaviour of the walrus at Coats Island, N.W.T.	1974	250	(B.18)	23
McLaughlin, M. Ste-Anne-de-Bellevue, Que.	SSC/ASC DFE/MPE	Analyse de données sur les baleines pour le compte de la Commission internationale baleinière.	1979	13,000	(B.70)	23
Miller, E.H. Dept. of Biology York Univ.	NSERCC/ CRSNGC	Evolutionary ecology of social systems, Characrii and Pinnipedia.	1978-79 1979-80 1980-81	7,000 3,245 7,955		23
Miller, E.H. Dept. of Biology York Univ.	NSERCC/ CRSNGC	Kay sonograph 7029A with amplitude display/scale magnifier.	1978-79	8,800		23
Miller, E.H. Dept. of Biology Univ. of Victoria	NSERCC/ CRSNGC	Comparative studies on communication in the Otariidae (Pinnipedia).	1981-82 1982-83 1983-84	7,000 8,085 8,570		23
Reeves, R. Como, Que.	SSC/ASC EMRC	Production of an updated status report on the bowhead whale in the western Arctic.	1983	3,200	(B.129)	23
Renouf, D. Dept. of Psychology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Investigations of the absolute sensitivity and frequency differentiating capacity of the vibrissae of harbour seals (Phoca vitulina) and the role that these abilities play in the animal's behaviour.	1978-79 1979-80 1980-81	8,000 8,280 9,091		23
Renouf, D. Dept. of Psychology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Studies of echolocation, maternal and social behaviour, and speed determination of harbour seals.	1981-82 1982-83 1983-84	15,500 3,245 7,955		23

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Rolf, D. Dept. of Biology McGill Univ.	SSC/ASC DFO/MPO	Development of computer programs for a simulation model of harp seal populations.	1981 1982	22,500 20,430	(B.96) (B.114)	23
Ronald, K. Dept. of Zoology Univ. of Guelph	NRCC/CNRC	The physiological basis of migration in the harp seal.	1974-75 1975-76	15,000 17,110		23
Ronald, K. Dept. of Zoology Univ. of Guelph	NRCC/CNRC NSERCC/ CRSNGC	Physiological basis of migration in marine mammals.	1976-77 1977-78 1978-79	23,000 24,932 26,428		23
Ronald, K. Dept. of Zoology Univ. of Guelph	NSERCC/ CRSNGC	The ecophysiology of seals and polar bears.	1979-80 1980-81 1981-82	31,590 34,686 38,155		23
Ronald, K. and Beamish, F.W.H. Dept. of Zoology Univ. of Guelph	NSERCC/ CRSNGC	Bioenergetics in seals.	1979-80 1980-81 1981-82	30,000 32,940 36,690		23
Terhune, J.M. Dept. of Biology Univ. of New Brunswick	NSERCC/ CRSNGC	Harbour seal acoustical communication.	1983-84	7,420		23
Tinker, S. Winnipeg, Man.	SSC/ASC DFO/MPO	Analyse and report on aerial film of beluga and narwhal.	1982	3,700	(B.117)	23
Webb, B.E. Winnipeg, Man.	SSC/ASC DFO/MPO	Ageing of harp seal teeth.	1983	3,825	(B.125)	23

FAUNA : TERRESTRIAL / FAUNE TERRESTRE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Agnew, B. Sackville, N.B.	SSC/ASC DFE/MPE	Analyses of caribou and muskox rumen and faecal samples to determine plant species composition.	1977	3,360	(B.47)	24
Asquith, K. Whitehorse, Y.T.	SSC/ASC EC	Collection and summarization of data on the vegetation found on the calving grounds of the porcupine caribou herd.	1981	5,100	(B.99)	24
Barrette, C. Dep. de Biologie Univ. Laval	NSERCC/ CRSNGC	Ecologie comportementale du caribou du parc des Laurentides.	1981-82	7,000		24
Bergerud, A.T. Dept. of Biology Univ. of Victoria	INAC/AINC	Woodland Caribou census - Pukaskwa National Park.	1974/75	4,000		24
Bergerud, A.T. Dept. of Biology Univ. of Victoria	NSERCC/ CRSNGC	The natural regulation of wolves and caribou.	1982-83	15,000		24
Bisdee, J. Vancouver, B.C.	SSC/ASC DFE/MPE	Library and bibliographic research on the Porcupine Caribou Herd.	1978	2,920	(B.62)	24
Brooks, R.J. Dept. of Zoology Univ. of Guelph	NRCC/CNRC	The biology and role of microtines in the Arctic ecosystem.	1974-75	5,000		24
Brooks, R.J. Dept. of Zoology Univ. of Guelph	NRCC/CNRC NSERCC/ CRSNGC	Population biology of microtine cycles.	1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	7,410 7,600 8,238 10,000 10,350 11,364 25,000 28,875 34,248		24

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Colorado State Univ. Fort Collins, Colorado, USA	SSC/ASC EC	Fecal composition analysis of the Porcupine caribou herd.	1981	2,504	(B.101)	24
Composition Analysis Laboratory Fort Collins, Colorado, USA	SSC/ASC EC	Fecal composition analysis of the Porcupine caribou herd.	1979 1980 1982 1983	2,484 2,505 1,500 2,723	(B.81) (B.88) (B.110) (B.121)	24
Cumming, H.G. Dept. of Forestry Lakehead Univ.	EC	Effects of logging on caribou.	1978-79 1979-80 1980-81	8,000 8,900 2,365		24
Dunbar, M.J. Dept. of Biology McGill Univ.	EC	To conduct a study of the ecology of arctic hare on Axel Heiberg and Ellesmere Island, N.W.T.	1977-78	2,500		24
Edmonds Biological Services Edmonton, Alta.	SSC/ASC EC	Study of vegetation used by Peary caribou in selected areas of Prince of Wales Island, Northwest Territories.	1980	5,100	(B.87)	24
Fuller, W.A. Dept. of Zoology Univ. of Alberta	NRCC/CNRC	1) Demography and winter ecology of taiga mammals. 2) Competitive interactions in small rodents.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	13,000 14,830 15,210 17,000 10,000 18,651		24
Fuller, W.A. Dept. of Zoology Univ. of Alberta	NSERCC/ CRSNGC	Demography and winter ecology of small boreal forest mammals.	1980-81 1981-82 1982-83 1983-84	15,000 16,500 19,050 9,540		24
Geist, V. Fac. of Environmental Design Univ. of Calgary	EC	Adaptive strategies of woodland caribou - a comparative study between populations.	1979-80	2,100		24
Gunn, A. Ottawa, Ont.	SSC/ASC EC	Laboratory, statistical and library research relating to caribou and muskoxen.	1984	10,600	(B.14)	24

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Kershaw, K.A. Dept. of Biology McMaster Univ.	SSC/ASC EC	Study of the growth and ecology of the Lichen Stereocaulon Paschale and its importance as fodder in caribou winter range within the Northwest Territories.	1976	21,259	(B.42)	24
Krebs, C.J. Dept. of Zoology Univ. of British Columbia	NSERCC/ CRSNGC	Population biology of small rodents.	1983-84	55,756		24
Lewis, M.C. Dept. of Biology York Univ.	NSERCC/ CRSNGC	The role of lemming grazing in high arctic ecosystems.	1978-79	7,000		24
Mallory, F.F. Dept. of Biology Wilfrid Laurier Univ.	NSERCC/ CRSNGC	Genetic and phenotypic changes in fluctuating lemming populations.	1980-81 1981-82 1982-83	8,000 8,800 10,164		24
Mallory, F.F. Dept. of Biology Wilfrid Laurier Univ.	NSERCC/ CRSNGC	Seasonal patterns of productivity in arctic fox and microtine populations: A genetic and demographic study.	1983-84	21,200		24
Nixon, W.A.C. Whitehorse, Yukon	SSC/ASC EC	Collection of data on range ecology of the Porcupine Caribou herd during the winter of 1980-81.	1980	7,500	(B.92)	24
Oritsland, N. Oslo, Norway	SSC/ASC INAC/AINC	Analysis of polar bear thermal regulation.	1979	81,300	(B.74)	24
Paine, R. Memorial Univ. of Newfoundland	SSHRCC/ CRSHC	2nd International Reindeer/Caribou Symposium Roros.	1979-80	-		24
Pruitt, W.O. Dept. of Zoology Univ. of Manitoba	EC	Study population dynamics of woodland caribou.	1975-76	3,000		24
Pruitt, W.O. Dept. of Zoology Univ. of Manitoba	INAC/AINC	Ecology of woodland caribou in S.E. Manitoba.	1977-78	1,480		24

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
R & R Research Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Continuation study of the interaction between fur bearing mammals and seismic lines.	1978	25,967	(B.62)	24
Ronald, K. Dept. of Zoology Univ. of Guelph	EC	To conduct physiological studies of free-ranging polar bears.	1974-75	4,500		24
Rowe, J.S. Institute of Northern Studies Univ. of Saskatchewan	SSC/ASC EC	Ecological studies and biophysical mapping in the sub-Arctic Caribou Range,. Northwest Territories.	1976	69,718	(B.37)	24
Shackleton, D.M. Dept. of Animal Science Univ. of British Columbia	NSERCC/ CRSNGC	1) Behaviour and ecology of mountain sheep 2) Behaviour and ecology of mountain goats.	1978-79	7,000		24
Shackleton, D.M. Dept. of Animal Science Univ. of British Columbia	NSERCC/ CRSNGC	1) Behaviour and ecology of mountain sheep 2) Predator-prey relationships of Vancouver Island wolves.	1979-80	7,000		24
Shank, C.C. Fac. of Environmental Design Univ. of Calgary	NSERCC/ CRSNGC	Sociobiology of chamois and caribou.	1983-84	5,300		24
Sinclair, A.R.E. Dept. of Zoology Univ. of British Columbia	NRCC/CNRC	Ecosystem studies of the Spatsizi Plateau, Central B.C. with emphasis on mountain caribou.	1976-77	7,500		24
Sinclair, A.R.E. Dept. of Zoology Univ. of British Columbia	EC	Behavioural ecology of the snowshoe hare.	1980-81	2,500		24
Sinclair, A.R.E. Dept. of Zoology Univ. of British Columbia	EC	The effect of spacing behaviour on snowshoe hare population dynamics.	1981-82	2,250		24

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Smith, J.N.M. and Sinclair, A.R.E. Dept. of Zoology Univ. of British Columbia	NSERCC/ CRSNGC	Interactions between snow shoe hares and their winter food plants.	1982-83	2,450		24
Smith, P.A. Wakefield, Que.	SSC/ASC EC	Research studies in co-operation with the Canadian Wildlife Service relating to information on polar bears.	1984	9,008	(B.14)	24
Stewart, J.M. Dept. of Botany Univ. of Manitoba	NSERCC/ CRSNGC	1) Population dynamics of wild rice associations 2) Caribou cluster mire complex: mechanisms of equilibrium.	1983-84	11,130		24
Theberge, J.B. Dept. of Environmental Design Univ. of Waterloo	EC	Adaptive responses of the red fox (Vulpes vulpes) to a heterogeneous environment of the S.W. Yukon and N.W. British Columbia.	1979-80	2,267		24
Univ. of Manitoba Dept. of Zoology	INAC/AINC	Woodland caribou ecological study - Bloodvein River.	1976-77	2,500		24
Williams, C.M. Dept. of Animal Science Univ. of Saskatchewan	SSC/ASC EC	A comparison of the nutritional requirements of cattle and bison in northern Canada.	1975	22,842	(B.30)	24

FAUNA : SEMI-AQUATIC AND FRESHWATER MAMMALS / FAUNE SEMI AQUATIQUE ET MAMMIFÈRES D'EAU DOUCE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Herrero, S. Dept. of Biology Univ. of Calgary	EC	Population biology and behavioural ecology of the river otter in northeastern Alberta.	1980-81	2,500	25

FAUNA : GENERAL (VERTEBRATES) / FAUNE : GÉNÉRAL (VERTÉBRÉS)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Bergerud, A.T. Dept. of Biology Univ. of Victoria	NSERCC/ CRSNGC	Population ecology of birds and mammals.	1983-84	42,400		26
Bergerud, A.T. Dept. of Biology Univ. of Victoria	NRCC/CNRC NSERCC/ CRSNGC	Population ecology of vertebrates.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	11,500 13,120 15,000 16,260 17,236 30,000 40,000 44,000 50,820		26
Can Test Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Habitat and population assessment of migratory birds and other wildlife in the Pacific and Yukon regions.	1977	16,000	(B.55)	26
Churcher, C.S. Dept. of Zoology Univ. of Toronto	NRCC/CNRC NSERCC/ CRSNGC	Investigation and description of the quaternary mammalian faunas of Canada and comparison with those from other continents.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	11,330 12,925 13,256 14,650 15,529 16,073		26
Churcher, C.S. Dept. of Zoology Univ. of Toronto	NSERCC/ CRSNGC	Quaternary mammalian faunas, especially of Canada and Africa.	1980-81 1981-82 1982-83 1983-84	19,000 20,900 24,140 30,740		26
D.A. Blood and Associates Limited Lantzville, B.C.	SSC/ASC DFE/MPE	Editing and revision of "Ml Overview report on Birds and Marine Mammals of the Beaufort Sea".	1977	750	(B.47)	26

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Dagg, A.I. Dept. of Biology Univ. of Waterloo	NRCC/CNRC	Locomotion in northern mammals.	1974-75 1975-76	4,000 4,565		26
Donald A. Blood and Associates Lantzville, B.C.	SSC/ASC EC	Indepth overview study and report related to the interpretation of Beaufort Sea seabird and marine mammal studies.	1975	19,870	(B.25)	26
Donald A. Blood and Associates Lantzville, B.C.	SSC/ASC DFE/MPE	Ecological assessment of migratory birds and other wildlife use along the route of the proposed Alaska Highway pipeline.	1978	25,000	(B.64)	26
Galbraith, D.F. Ste.-Anne-de-Bellevue, Que.	SSC/ASC EC	Collaboration in field studies and analysis of collections and observations of marine fauna from the Beaufort Sea and Adjacent waters.	1974	12,000	(B.15)	26
Galbraith, D.F. Ste.-Anne-de-Bellevue, Que.	SSC/ASC EC	Amendment to a contract for field studies and analysis of marine fauna from the Beaufort Sea and adjacent waters to include a study of the fish population over-winter as well as carrying out more intensive mid water trawling studies.	1975	8,000	(B.29)	26
Hohn, E.O. Dept. of Physiology Univ. of Alberta	NRCC/CNRC	Hormonal control of seasonal colour change in snow shoe hares and ptarmigan.	1974-75 1975-76 1976-77	2,000 2,280 2,340		26
Hohn, E.O. Dept. of Physiology Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Hormonal control of seasonal colour in ptarmigan and certain mammals.	1977-78 1978-79 1979-80	2,220 2,332 2,414		26
Kingston, J.F. Dept. of Chemistry Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Natural products from cold water marine species.	1978-79 1979-80 1980-81	6,250 6,469 7,103		26
Krebs, C.J. Dept. of Zoology Univ. of British Columbia	NSERCC/ CRSNGC	Population biology of small mammals.	1978-79 1979-80 1980-81 1981-82 1982-83	28,620 29,622 40,000 44,000 50,820		26

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Krebs, C.J. Dept. of Zoology Univ. of British Columbia	NSERCC/ CRSNGC	Alpha image analyzer.	1979-80	22,000		26
Krebs, C.J., Sinclair, A.R.E. and Smith, J.N.M. Dept. of Zoology Univ. of British Columbia	NSERCC/ CRSNGC	Functional dynamics of the vertebrate community in the Kluane region, Yukon Territory.	1978-79 1979-80 1980-81 1981-82 1982-83	32,860 34,010 50,000 55,000 72,525		26
Krivanek, E. Lachine, Que.	SSC/ASC EC	Preparation of scientific illustrations of biological specimens in collaboration with the Arctic Biological Station.	1974	2,400	(B.15)	26
Krivanek, E. Lachine, Que.	SSC/ASC EC	Continued preparation of scientific illustrations of biological specimens in collaboration with the Arctic Biological Station.	1974	1,320	(B.21)	26
Lankester, M.W. Dept. of Biology Lakehead Univ.	NRCC/CNRC NSERCC/ CRSNGC	Helminth diseases of fish and game animals of the boreal forest.	1976-77 1977-78 1978-79	5,550 5,962 6,320		26
Lavigne, D.M. Dept. of Zoology Univ. of Guelph	NSERCC/ CRSNGC	Responses of some arctic homeotherms to variable energy (radiation and food) regimes.	1979-80 1980-81 1981-82	12,575 13,807 15,188		26
Lilly, S. Montreal, Que.	SSC/ASC DFE/MPE	Examination of ringed seal ovaries and arctic fox skulls.	1977	4,250	(B.51)	26
Lilly, S. Montreal, Que.	SSC/ASC DFE/MPE	Examination of biological samples collected during the Arctic Islands Project.	1977	4,899	(B.57)	26
Marchessaux, D. Marseille, France	SSC/ASC DFO/MPO	Etude de mammiferes de l'est ou du nord du Canada.	1981	24,990	(B.98)	26*
Moody, A. Martensville, Sask.	SSC/ASC DFE/MPE	Review of literature on wildlife habitat development in connection with major engineering works in rivers and estuaries.	1979	1,500	(B.73)	26

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Ramprashad, F. Dept. of Zoology Univ. of Guelph	NRCC/CNRC	Comparative morphology of the ear of some arctic mammals.	1974-75 1975-76 1976-77	4,000 4,565 4,680	26
Sinclair, A.R.E., Krebs, C.J. and Smith, J.N.M. Dept. of Animal Resource Ecology Univ. of British Columbia	NSERCC/ CRSNGC	Functional dynamics of the vertebrate community in the Kluane Region, Yukon	1983-84	6,360	26
Theberge, J.B. Dept. of Environmental Sciences Univ. of Toronto	NRCC/CNRC	1) Role of agression in population regulation of ruffed grouse. 2) Aspects of caribou biology in the vicinity of Kluane National Park, Yukon. 3) Wolf research in Algonquin Park.	1974-75	2,000	26
Theberge, J.B. Dept. of Biology Univ. of Waterloo	NSERCC/ CRSNGC	1) Wolf-caribou relationships 2) Predation on sympatric ruffed grouse. 3) Snowshoe hare populations.	1980-81 1981-82 1982-83	13,000 14,300 16,517	26
Theberge, J.B. Dept. of Biology Univ. of Waterloo	NSERCC/ CRSNGC	Wildlife predator-prey studies: Caribou-wolf, fox-prey, ruffed grouse/snowshoe hare-predators.	1983-84	10,600	26
Thomas, V.G. Dept. of Zoology Univ. of Guelph	NSERCC/ CRSNGC	The body as its own nutrient resource in hares and grouse.	1981-82 1982-83 1983-84	13,000 18,015 19,679	26
Ursus Biotechnics Limited Edmonton, Alta.	SSC/ASC EC	Collection and analysis of Western Canada wildlife, samples and data for rare and endangered species.	1980	5,000 (B.07)	26
Wood, C. Beaurepaire, Que.	SSC/ASC EC	Provision of technical assistance in a study of marine fauna in the Beaufort Sea and adjacent area.	1974	1,975 (B.17)	26

FISHERIES / PÊCHERIES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Aquatic Environments Limited Calgary, Alta.	SSC/ASC DFE/MPE	Assessment of the fisheries resources of the Slave River Delta - part of the Mackenzie River Basin Study, 1978-81.	1978	239,586	(B.67)	27
Aquatic Environments Limited Calgary, Alta.	SSC/ASC DFO/MPO	Review of the fish resources of the Mackenzie River Delta and Beaufort Sea for fishery management resource development potential and future research requirement purpose.	1981	21,808	(B.95)	27
Cinader, A. Whitehorse, Yukon	SSC/ASC DFO/MPO	Compilation and review of existing fisheries information on the Yukon River Basin study.	1982	5,000	(B.108)	27
Horler, A. Whitehorse, Yukon	SSC/ASC DFO/MPO	Planning and supervision of Yukon freshwater fisheries program.	1983 1983	6,000 20,800	(B.124) (B.126)	27
Howard Paish and Associates Limited Burnaby, B.C.	SSC/ASC DFO/MPO	Preparation of rough draft strategic overview document for fish resource related development in Yukon and Northern British Columbia.	1981	12,000	(B.102)	27
Howard Paish and Associates Limited Burnaby, B.C.	SSC/ASC DFO/MPO	Preparation of a strategic planning overview for Yukon/Northern British Columbia.	1982	4,500	(B.114)	27
Interdisciplinary Systems Limited Winnipeg, Man.	SSC/ASC DFO/MPO	Assess the adequacy of existing approaches to the collection, analysis and distribution of recreational and native domestic fishing statistics in the Northwest Territories.	1982	19,900	(B.109)	27
McIndoe, S. Vancouver, B.C.	SSC/ASC DFO/MPO	Compilation and review of existing fishing information on the Yukon River basin study.	1982	6,000	(B.108)	27
McLaughlin, M. Ste-Anne-de-Bellevue, Que.	SSC/ASC DFE/MPE	Elaboration de resumés statistiques de données sur la pêche tirées de l'etude de 1977 menée par l'industrie de la pêche dans l'Arctique de l'Ouest.	1978	2,080	(B.60)	27

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Munson, T. Whitehorse, Yukon	SSC/ASC DFO/MPO	Compilation and review of existing fisheries information on the Yukon River basin study.	1982	5,000	(B.108)	27
Northern Natural Resource Service Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Evaluation of fisheries resource adjacent to the proposed paving and realignment of the Alaska Highway within the Yukon Territory.	1978	23,184	(B.66)	27
Patterson, W. Surrey, B.C.	SSC/ASC DFE/MPE	Longline and blackcod trapping experiment on the MV Arctic Harvester.	1977	3,750	(B.55)	27
Pederson, G. Winnipeg, Man.	SSC/ASC EC	Conduct a fisheries survey at a series of streams and lakes in the Tuktoyaktuk area, Northwest Territories.	1982	5,200	(B.112)	27
Pleunis, W. Lethbridge, Alta.	SSC/ASC DFO/MPO	Conduct a fisheries survey at a series of streams and lakes in the Tuktoyaktuk area, Northwest Territories.	1982	5,200	(B.112)	27

FORESTS / FORÊTS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Congrès international sur la limite des forets Quebec Nordique Poste-de-la-Baleine, Que.	NSERCC/ CRSNGC	Conference Grants/Subventions pour conferences (PQ - juin et juillet 1981).	1981-82	9,200		28*
Cwynar, L.C. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Paleoecology and dynamics of treeline and climate of Beringia.	1982-83 1983-84	19,350 22,260		28
Cwynar, L.C. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Research microscopes.	1983-84	18,915		28
Davis, A.M. Dept. of Geography Univ. of Toronto	NSERCC/ CRSNGC	Movements of the boreal forest - Great Lakes/St. Lawrence forest and boreal forest-tundra ecotones during the Holocene.	1978-79	5,900		28
Davis, A.M. Dept. of Geography Univ. of Toronto	NSERCC/ CRSNGC	The character of the boreal forest - Great Lakes/ St. Lawrence forest and boreal/forest-tundra ecotones during the Holocene.	1979-80	7,000		28
Forintek Canada Corporation Vancouver, B.C.	SSC/ASC EC	Determination of the impact of climatic variation on boreal forest biomass through the use of tree-ring analysis - part of the Energy from the Forest (ENFOR) Program.	1980	42,000	(B.88)	28
Gagnon, E. Dep. des Sciences pures Univ. du Quebec à Chicoutimi	EC	Paléoclimatologie : Oxygène - 18 et déplacements holocènes de la limite des forêts, Canada N.-E.	1980-81	4,000		28*
Gagnon, R. Dep. des Sciences fondamentales Univ. du Québec à Chicoutimi	NSERCC/ CRSNGC	Déplacements de la limite des forêts de mélèze (Larix laricina (DuRoi) K. Koch) et paléoclimatologie holocène du Québec nordique.	1983-84	7,420		28*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Payette, S. Dép. de Phytotechnie Univ. Laval	NSERCC/ CRSNGC	Ecologie de la limite des forêts au Nouveau-Québec.	1976-77 1977-78 1978-79	7,000 7,588 8,043	28*
Payette, S. Dép. de Phytologie Univ. Laval	NSERCC/ CRSNGC	Ecologie de la limite des forêts au Nouveau-Québec: segment baie d'Hudson baie d'Ungava.	1979-80 1980-81 1981-82	12,000 13,176 14,494	28*
Payette, S. Dep. de Phytologie Univ. Laval	NSERCC/ CRSNGC	Dynamique holocène des systèmes écologiques de la toundra forestière du Nord québécois.	1982-83 1983-84	27,000 28,620	28*
Rowe, J.S. Dept. of Plant Ecology Univ. of Saskatchewan	EC	Sub-arctic forest ecology.	1977-78	6,000	28

FOREST EXPLOITATION (ALL ISSUES) / EXPLOITATION FORESTIÈRE (TOUS LES ASPECTS)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Micko, M.M. Univ. of Alberta Edmonton, Alta.	SSC/ASC EC	Determination of green and dry volume wood densities of Prairie Provinces/Northwest Territories inventory tree species.	1983	20,000	(B.126)	29
Nawitka Renewable Resources Consultants Limited Victoria, B.C.	SSC/ASC EC	Development of biomass prediction equations for Yukon tree species.	1980	146,657	(B.87)	29
Nawitka Renewable Resources Consultants Limited Victoria, B.C.	SSC/ASC EC	Development of metric single-tree volume tables for three Yukon tree species.	1982	4,920	(B.109)	29

FOREST FIRES, TUNDRA FIRES / FEUX DE FORÊT, FEUX DE TOUNDRA

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Cho, C.M. Dept. of Soil Science Univ. of Manitoba	EC	Effect of burning upon nitrogen and phosphorus in soils of the northern coniferous forest.	1974-75	8,000		30
Edroma, E. Uganda Institute of Ecology Lake Katwe	NSERCC/ CRSNGC	To collaborate with Professor R.W. Wein, Fire Science Centre, University of New Brunswick on fire intensity, plant species survival and post-fire vegetation - animal community changes (May-July 1981).	1980-81	3,435		30
International Forest Fire Systems Limited Richmond, B.C.	SCC/ASC INAC/AINC	A study on the minimization of forest fire threat to settlements in the boreal forest zone of the Northwest Territories.	1976	29,925	(B.42)	30
International Forest Fire Systems Limited Richmond, B.C.	SSC/ASC INAC/AINC	Preparation of a handbook on how to protect settlements from forest fires.	1976	30,625	(B.42)	30
Kershaw, K.A. and Rouse, W.R. Dept. of Biology and Dept. of Geography McMaster Univ.	SSC/ASC INAC/AINC	Study of the impact of fire on forest and tundra ecosystems.	1975	69,977	(B.26)	30
Kershaw, K.A. and, Rouse, W.R. and Bunting, B.T. Dept. of Biology and Dept. of Geography McMaster Univ.	SSC/ASC INAC/AINC	Study on the impact of fires on forest and tundra ecosystems.	1974	84,915	(B.16)	30

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Murphy, P.J. Fac. of Agriculture and Forestry Univ. of Alberta	SSC/ASC EC	Monitor wildfires in the boreal forest and conduct time and motion studies on the suppression techniques used.	1975	4,800	(B.27)	30
Prairie Agri-Management Consultants Limited Edmonton, Alta.	SSC/ASC EC	Development and description of a final simulation model for the evaluation of initial attack systems on wildfires.	1974	2,000	(B.10)	30
Rouse, W.R. Dept. of Geography McMaster Univ.	SSC/ASC INAC/AINC	Classification of fire effects on the micro-climate of forest and tundra ecosystems.	1976	40,000	(B.37)	30
Rowe, J.S. Dept. of Plant Ecology Univ. of Saskatchewan	SSC/ASC INAC/AINC	A study on fire effects on terrain in the upper Mackenzie Valley and adjacent highlands.	1974	44,198	(B.16)	30
Rowe, J.S. Dept. of Plant Ecology Univ. of Saskatchewan	SSC/ASC INAC/AINC	A Study of the fire effects on terrain in the western Northwest Territories.	1975	21,655	(B.26)	30
Univ. of New Brunswick Dept. of Biology	INAC/AINC	Preparation of a report on the occurrence and effects of prehistoric fires in designated National Parks.	1976-77	2,000		30
Wein, R.W. Dept. of Biology Univ. of New Brunswick	SSC/ASC INAC/AINC	A study on wildfires and their relation to land use management in mainland Arctic regions.	1974	20,000	(B.15)	30
Wein, R.W. Dept. of Biology Univ. of New Brunswick	NSERCC/ CRSNGC	Fire in northern ecosystem functioning.	1980-81	12,000		30
Wein, R.W. Dept. of Biology Univ. of New Brunswick	EC	Fire research in the northern coniferous forest. Wood Buffalo National Park.	1983-84	10,000		30

FRESHWATER ECOSYSTEMS / ÉCOSYSTÈMES D'EAU DOUCE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Beak Consultants Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Sampling and chemical analysis of various waters in British Columbia and the Yukon.	1978	70,000	(B.63)	31
Beak Consultants Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Identification of periphyton samples from the Yukon River.	1978	1,682	(B.69)	31
Bendell, B. Capreol, Ont.	SSC/ASC EC	Study of the relationships between water chemistry and fish and invertebrate communities in northern Ontario Lakes.	1983	18,500	(B.124)	31
Bunnage, B.J. Whitehorse, Y.T.	SSC/ASC EC	Water quality studies in the Whitehorse area.	1980	3,300	(B.92)	31
Chemex Labs (Alberta) Limited Calgary, Alta.	SSC/ASC EC	Provision of analytical services for chemical analysis of water and related substrates, for the western and northern region of the Inland Waters, Directorate, Environment Canada.	1981	143,378	(B.97)	31
Chemex Labs (Alberta) Limited Calgary Alta.	SSC/ASC INAC/AINC	Regional individual standing offer for assays.	1983	15,000	(B.124)	31
Chemex Labs Limited North Vancouver, B.C.	SSC/ASC EC	Sampling and chemical analysis of water samples from various waters of British Columbia and the Yukon Territory.	1980	140,000	(B.87)	31
Chemex Labs Limited North Vancouver, B.C.	SSC/ASC EC	Chemical and biological analysis of samples collected from British Columbia and Yukon waters.	1983	86,299	(B.122)	31
Dickman, M.D. Dept. of Biological Sciences Brock Univ.	NSERCC/ CRSNGC	Natural and man induced factors affecting the past productivity and species composition of selected Canadian Shield Lakes.	1978-79	9,767		31
MacDonald, G. Winnipeg, Man.	SSC/ASC DFO/MPO	Analyse data collected from two river systems draining into Great Slave Lake.	1982	4,193	(B.111)	31
Western Ecological Services Limited Edmonton, Alta.	SSC/ASC EC	Analysis of the Mackenzie Basin alluvial ecosystems.	1980	49,820	(B.86)	31

GEOGRAPHY, TOPONYMY, REGIONAL STUDIES / GÉOGRAPHIE, TOPONYMIE, ÉTUDES RÉGIONALES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Hardy, A.R. North Vancouver, B.C.	SSC/ASC DFE/MPE	Development and production of topographical and hydrographical maps of the British Columbia and Yukon coasts.	1977	1,260	(B.57)	32
Harvest House (Barr, W.) Montréal	CC/CAC	Translation Grants/Subventions à la traduction: Nordicité canadienne Louis-Edmond Hamelin.	1978-79	7,500		32*
James Dobbin Associates Limited Toronto, Ont.	SSC/ASC INAC/AINC	Systems analysis mapping of the Lancaster Sound Region as part of the Lancaster Sound Regional study.	1979 1980	53,750 60,000	(B.81) (B.88)	32
Linders, J.G. Dept. of Computing and Information Sciences Univ. of Guelph	SSC/ASC EMRC	Development of a toponymic data base for the Canada Gazeteer Atlas Index - application of automated cartography system.	1979	12,000	(B.73)	32
Morisset, J. Univ. du Québec à Montréal, Qué.	SSHRCC/ CRSHC	Le grand nord et l'amazonie.	1983-84	26,918		32
Poirel, J.-A. Longueuil, Qué.	CC/CAC	Film documentaire portant sur la région de la rivière Nahanni, T.N.-O.	1974-75	5,000		32
Ritchie, J.C. Dept. of Botany Univ. of Toronto	CC/CAC	Climatology, Geology, Archeology and Paleontology: Vegetation history of the Beringian land bridge and its role in the evolution of plant, animal and human ecosystems.	1977-78	34,000		32

GEOLOGY, GEOPHYSICS, PHYSICS AND RELATED ISSUES / GÉOLOGIE, GÉOPHYSIQUE, PHYSIQUE ET SUJETS CONNEXES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Achab, A. INRS-Pétrole Univ. du Québec à Québec	EMRC	Étude palynologique du paléozoique inférieur de l'Est du Canada et des Iles de l'Arctique.	1977-78 1978-79 1979-80	5,200 5,200 5,000		33
Achab, A. INRS-Pétrole Univ. du Québec à Québec	EMRC	Étude des chitinozoaires de l'Est du Canada et des Iles de l'Arctique.	1981-82	5,200		33
Acme Analytical Laboratories Limited Burnaby, B.C.	SSC/ASC EMRC	Study of the chemical changes induced by hydrothermal activity in the Wrangell Volcanics.	1977	2,346	(B.49)	33
Aksu, A. Centre for Marine Measurements Dalhousie Univ.	SSC/ASC EMRC	Sampling Arctic Ocean cores for paleomagnetic measurements.	1983	3,900	(B.128)	33
Aksu, A. Dept. of Geology Dalhousie Univ.	EMRC	Stratigraphic evaluation of two piston cores from Jones sound.	1983-84	4,998		33
Alexander, R. Resolute, N.W.T.	SSC/ASC EMRC	Magnetic and seismic operations at the Resolute Bay geophysical observatory.	1982	9,270	(B.110)	33
Anger, C.D. Dept. of Physics Univ. of Calgary	NRCC/CNRC NSERCC/ CRSNGC	Satellite, rocket, and groundbased studies of auroral phenomena.	1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	48,200 52,249 56,000 61,960 63,640 65,000 75,075 79,580		33
Anger, C.D. Dept. of Physics Univ. of Calgary	NSERCC/ CRSNGC	A multi-pipeline image processing, analysis, and display system.	1980-81	44,800		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctic Canadian Continental Shelf Exploration Services Limited Toronto, Ont.	SSC/ASC EMRC	Provision of processed seismic data from an under-ice vehicle during 1975.	1970	200,000	(B.11)	33
Armstrong, R.L. Dept. of Geological Sciences Univ. of British Columbia	NRCC/CNRC NSERCC/ CRSNGC	Geochronometry of cordilleran igneous and metamorphic rocks.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81	12,330 26,325 27,000 29,268 36,000 37,260 40,911		33
Armstrong, R.L. Dept. of Geological Sciences Univ. of British Columbia	SSC/ASC EMRC	Study of the absolute age of young volcanic centres in the Cordillera.	1976 1977 1978 1979 1980 1981 1982 1983	8,000 6,500 6,500 975 6,930 8,233 8,760 13,140	(B.41) (B.52) (B.61) (B.73) (B.89) (B.102) (B.114) (B.126)	33
Armstrong, R.L. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Geochronemetry of Cordilleran rocks and isotope studies of crustal evolution.	1981-82 1982-83 1983-84	50,000 57,750 61,215		33
Armstrong, R.L. Dept. of Geological Sciences Univ. of British Columbia	SSC/ASC EMRC	Zircon dating of Cordilleran granitic rocks.	1983	24,840	(B.129)	33
Associated Petroleum Consultants Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cuttings and core samples from four wells in the districts of MacKenzie and Franklin.	1975 1976 1977	13,418 19,990 12,520	(B.31) (B.42) (B.53)	33
Ayres, L.D. Dept. of Earth Sciences Univ. of Manitoba	NSERCC/ CRSNGC	Physical volcanology, stratigraphy, and geochemistry of Precambrian and Early Paleozoic volcanoes.	1981-82 1982-83 1983-84	17,000 19,635 20,813		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Ayres, L.D. Dept. of Earth Sciences Univ. of Manitoba	NSERCC/ CRSNGC	Sample preparation facilities for x-ray fluorescence spectrometry.	1981-82	16,000		33
Baadsgaard, H. Dept. of Geology Univ. of Alberta	NRCC/CNRC	Isotope geology of Western Canadian geologic events.	1974-75 1975-76	12,450 14,205		33
Baadsgaard, H. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Isotope geology of: Archean polymetamorphic rocks, pyroclastic beds, uranium deposits and salt beds.	1982-83 1983-84	35,500 37,630		33
Barendregt, R.W. Lethbridge, Alta.	SSC/ASC EMRC	Paleomagnetic analysis of samples from Banks Island, the Yukon and the District of Mackenzie.	1983	5,500	(B.129)	33
Barnes, C.R. Dept. of Earth Sciences Univ. of Waterloo	EMRC	Lower Paleozoic conodont biostratigraphy of the Canadian and Greenland Arctic.	1974-75 1975-76 1976-77	8,165 11,000 4,000		33
Barnes, C.R. Dept. of Earth Sciences Univ. of Waterloo	SSC/ASC EMRC	Micropaleontological preparation of samples of carbonate rocks from Northern Ellesmere Island.	1976	2,500	(B.34)	33
Barnes, C.R. Dept. of Earth Sciences Univ. of Waterloo	SSC/ASC EMRC	Scientific investigation of collections of ordovician rocks - Arctic Islands.	1977 1978	4,500 4,500	(B.51) (B.65)	33
Barnes, C.R. Dept. of Earth Sciences Univ. of Waterloo	EMRC	Ordovician conodont biostratigraphy of Devon Island, Northwest Territories.	1978-79 1979-80	8,000 6,000		33
Barnes, C.R. Dept. of Earth Sciences Univ. of Waterloo	NSERCC/ CRSNGC	Lower Paleozoic conodont biostratigraphy, paleoecology and ultrastructure.	1978-79 1979-80 1980-81 1981-82	20,108 26,000 28,548 39,338		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Barnes, C.R. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Conodont taxonomy, biostratigraphy, paleoecology, and biogeography.	1982-83 1983-84	34,500 36,570		33
Beaumount, C. Dept. of Oceanography Dalhousie Univ.	NRCC/CNRC	1) A study of aseismic strain accumulation on strike-slip faults with particular application to the San Andreas Fault System. 2) A study of the rheological response of the earth to sediment loading in the Sverdrup Basin.	1976-77	6,500		33
Bell, K. Dept. of Geology Carleton Univ.	EMRC	Geochronology and isotopic studies of granitoid rock sfrom the northern Yukon.	1983-84	16,580		33
Bell, K. Dept. of Geology Carleton University	EMRC	Proterozoic volcanism in Canada.	1974-75	9,000		33
Bell, K. Dept. of Geology Carleton Univ.	EMRC	Geochronological investigation of a volcanic suite of the essayo formation of Ellesmere Island, Northwest Territories.	1982-83	3,900		33
Bell, K. and Blenkinsop, J. Dept. of Geology Carleton Univ.	SSC/ASC EMRC	Geochronological investigation of a volcanic suite of the essayo formation of Ellesmere Island, Northwest Territories.	1983	3,900	(B.121)	33
Bell, R.T. Dept. of Geological Sciences Brock Univ.	NRCC/CNRC	Stratigraphy and sedimentology of early proterozoic sediments of the Belcher Islands.	1974-75 1975-76	3,575 667		33
Bourne, J. Dep. des Sciences de la terre Univ. du Québec à Montréal	SSC/ASC EMRC	Étude géotechnique des roches et minéraux de la zone du front de Thelon, dans le district de Mackenzie (Territoires du Nord-Ouest).	1982	3,200	(B.117)	33
Braun, W.K. Dept. of Geological Sciences Univ. of Saskatchewan	EMRC	Biostratigraphy and microfaunas of the Mesozoic rocks in Western Canada.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82	4,500 6,000 5,500 6,000 7,000 5,000 5,900 4,150		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Braun, W.K. Dept. of Geological Sciences Univ. of Saskatchewan	EMRC	Biostratigraphy and ostracode faunas of Upper Devonian formations, Rocky Mountains region.	1983-84	5,000		33
Brookfield, M.E. Dept. of Land Resource Science Univ. of Guelph	NRCC/CNRC	1) Stratigraphy, structure and paleontology of the Mesozoic rocks of Harrison Lake and the Cascade Mountains. 2) Jurassic evolution of the Pacific margins.	1976-77	4,750		33
Brooks, C. Dép. de Géologie Univ. de Montréal	SSC/ASC EMRC	Radiometric study of rocks from the Belcher Islands, N.W.T.	1977	4,730	(B.53)	33*
Brooks, C. Dép. de Géologie Univ. de Montréal	NSERCC/ CRSNGC	Evolution of the Precambrian Shield of Canada as determined by geochemical, isotopic and geochronologic analysis.	1980-81 1981-82 1982-83	29,250 32,175 37,162		33*
Brooks, C. Dép. de Géologie Univ. de Montréal	NSERCC/ CRSNGC	Isotopic and chemical studies of early crustal processes in the Precambrian Shield of Canada.	1983-84	39,750		33
Brooks, C., Ludden, J.N., and Gelinas, L. Dép. de Geologie Univ. de Montréal et École Polytechnique	NSERCC/ CRSNGC	Isotope geology facility.	1983-84	36,125		33
Burwash, R.A. Dept. of Geology Univ. of Alberta	NRCC/CNRC	Relationships of metamorphic to metallogenic belts in precambrian rocks of western Canada.	1974-75 1975-76	10,100 10,100		33
Caldwell, W.G.E. Dept. of Geological Sciences Univ. of Saskatchewan	NSERCC/ CRSNGC	Biostratigraphic studies in the cretaceous system of Western Canada.	1981-82 1982-83 1983-84	23,000 26,565 28,159		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Caldwell, W.G.E. et al. Dept. of Geological Sciences Univ. of Saskatchewan	NSERCC/ CRSNGC	X-ray diffraction system.	1983-84	150,000		33
Cambridge Bay Sports and Electric Cambridge, Bay, N.W.T.	SSC/ASC EMRC	Field observations and instrument checks at geophysical observatory at Cambridge Bay, N.W.T.	1974 1975	2,500 3,200	(B.12) (B.26)	33
Canadian Astronautics Limited Ottawa, Ont.	SSC/ASC NRCC/CNRC	Development and installation of the Canadian Auroral Network for the OPEN Program Unified Study bistatic auroral radars.	1983	3,073,750	(B.129)	33
Carmichael, D.M. Dept. of Geological Sciences Queen's Univ. at Kingston	NSERCC/ CRSNGC	Metamorphic studies in Ontario, British Columbia, and the Northwest Territories.	1978-79 1980-81	6,400 13,500		33
Carmichael, D.M. Dept. of Geological Sciences Queen's Univ. at Kingston	NSERCC/ CRSNGC	Metamorphic studies in Canada.	1981-82 1982-83 1983-84	19,180 22,153 23,482		33
Cerny, P. Dept. of Earth Sciences Univ. of Manitoba	EMRC	Distribution and structural setting of fertile granites and related pegmatites in the Yellowknife pegmatite field Northwest Territories.	1983-84	5,000		33
Cerny, P. Dept. of Earth Sciences Univ. of Manitoba	INAC/AINC	Geological study of rare earth elements in Yellowknife pegmatites.	1979-80	5,000		33
Chatterton, B.D.E. Dept. of Geology Univ. of Alberta	NRCC/CNRC	Conodont and trilobite systematics and biostratigraphy in western and northwestern Canada.	1975-76 1976-77 1977-78	7,800 8,000 8,672		33
Chatterton, B.D.E. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Taxonomic, paleoecologic, biostratigraphic and biogeographic studies of Paleozoic faunas of western and northern Canada, with concentration on conodonts and trilobites.	1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	13,800 14,283 15,683 20,000 23,100 32,754		33
Chatterton, B.D.E. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Photomacroscope system.	1980-81	13,500		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Chatterton, B.D.E. Dept. of Geology Univ. of Alberta	EMRC	Silurian trilobite and conodont faunas of the Mackenzie Mountains.	1980-81 1981-82 1982-83 1983-84	4,000 4,000 3,500 4,000		33
Clark, G.S. Dept. of Earth Sciences Univ. of Manitoba	NSERCC/ CRSNGC	Rubidium-strontium geochronology of Archean orthogneiss and middle Proterozoic plutonium Churchill Province, northern Manitoba.	1982-83 1983-84	8,500 9,010		33
Collerson, D. Dept. of Geology Memorial Univ. of Newfoundland	INAC/AINC	Study of Archaean gneisses.	1976-77	1,000		33
Cook, D. Yukon Territory	SSC/ASC EMRC	Operation of a seismograph station at Koidern River, Yukon Territory.	1978 1979 1980	887 1,500 1,800	(B.68) (B.75) (B.87)	33
Copper, P. Dept. of Geology Laurentian Univ. of Sudbury	NSERCC/ CRSNGC	To support visit by: W. Qi, Beijing University, Beijing, China, for research on comparative analysis of the morphology, paleoecology and sedimentology of paleozoic and mesozoic reefs in Canada and China.	1983-84	3,600		33
Csanady, G.T. Univ. of Waterloo	EC	Planetary boundary layer studies in the Mackenzie Valley, N.W.T.	1974-75	24,996		33
Cumming, G.L. Dept. of Physics Univ. of Alberta	SSC/ASC EMRC	Study on gravity and magnetic profiles across the Churchill-Superior Boundary in Saskatchewan and Manitoba.	1976	5,750	(B.42)	33
Digitech Corporation Limited Calgary, Alta.	SSC/ASC EMRC	Synthetic seismograms covering the Northwest Territories and the Pacific west coast.	1974	9,180	(B.13)	33
Dixon, O.A. Dept. of Geology Univ. of Ottawa	NRCC/CNRC	1) Ordovician-Silurian faunas and sedimentary facies, Somerset and Prince of Wales Islands (Boothia Arch). 2) Ordovician-Silurian faunas and paleoecological studies, Anticosti Island.	1974-75 1975-76 1976-77	8,200 9,355 9,594		33
Dixon, O.A. Dept. of Geology Univ. of Ottawa	NSERCC/ CRSNGC	1) Ordovician-Silurian faunas and sedimentary facies, central Canadian Arctic 2) Ordovician-Silurian faunas and paleoecological studies, Anticosti Island.	1977-78 1978-79 1979-80	11,650 12,349 12,781		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Dixon, O.A. Dept. of Geology Univ. of Ottawa	NSERCC/ CRSNGC	Ordovician-devonian invertebrate fossils and sedimentary facies.	1980-81 1981-82 1982-83 1983-84	13,500 14,880 17,152 26,500		33
Dixon, O.A. Dept. of Geology Univ. of Ottawa	NSERCC/ CRSNGC	Devonian Kee Scarp reef complex, N.W.T.	1982-83	3,000		33
Dome Petroleum Limited Calgary, Alta.	SSC/ASC EMRC	Acquisition of seismic data from GSI high resolution test line No. 4 shot between Tarsuit and Ukalerk.	1981	50,000	(B.104)	33
Dome Petroleum Limited Calgary, Alta.	SSC/ASC EMRC	1981 high resolution seismic test line number 4 shot between Tarsuit and Ukalerk.	1982	8,250	(B.109)	33
Donaldson, J.A. Dept. of Geology Carleton Univ.	EMRC	Sedimentology and stratigraphy of the Hornby Bay and Dismal Lakes Groups, Northwest Territories.	1980-81	7,000		33
Donaldson, J.A. Dept. of Geology Carleton Univ.	INAC/AINC	Narakay Island volcanic study.	1981-82	9,700		33
Donaldson, J.A. Dept. of Geology Carelton Univ.	INAC/AINC	Nonacho Basin structure and stratigraphy.	1981-82	4,000		33
Dyck, J. Yukon Territory	SSC/ASC EMRC	Operation of a seismograph station at Kluane Lake, Yukon Territory.	1978 1979 1980	900 1,500 1,800	(B.68) (B.75) (B.87)	33
EBA Engineering Consultants Limited Edmonton, Alta.	SSC/ASC EMRC	Geotechnical investigation along the Alaska Highway area between Watson Lake and Beaver Creek, Yukon Territory.	1978	36,395	(B.62)	33
EBA Engineering Consultants Limited Edmonton, Alta.	SSC/ASC EMRC	Acquisition of geothermal data in offshore wells - Phase I.	1982	21,595	(B.110)	33
Eckervogt, H. Yukon Territory	SSC/ASC EMRC	Operation of a seismograph station at Dezadeash Lake, Yukon Territory.	1978 1979 1980	875 1,500 900	(B.68) (B.75) (B.87)	33

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Elf Oil Exploration and Production Canada Limited Calgary, Alta.	SSC/ASC EMRC	A cooperative project to examine rock samples from approximately 200 seismic shot holes located on Banks Island, N.W.T.	1974	4,050	(B.17)	33
Evans, M.E. Dept. of Physics Univ. of Alberta	NSERCC/ CRSNGC	Quaternary paleomagnetism of Western Canada and archeomagnetic investigations.	1981-82 1982-83 1983-84	26,000 30,030 31,532		33
Fahraeus, L.E. Dept. of Earth Sciences Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Conodontophorid paleobiology, histomorphology of conodonts and thelodont scales, and Lower Paleozoic chrono and biostratigraphy.	1983-84	18,550		33
Farrar, E. Dept. of Geological Sciences Queen's Univ. at Kingston	NSERCC/ CRSNGC	Cordilleran geochronology and the kinematic and tectonic consequences of ride subduction.	1980-81 1981-82	13,540 14,850		33
Farrar, E. Dept. of Geological Services Queen's Univ. at Kingston	NSERCC/ CRSNGC	Argon extraction system for K-ar geochronology	1980-81	44,686		33
Ferguson, L. Dept. of Geology Mount Allison Univ.	NRCC/CNRC	1) Biometrical study of Scottish carboniferous ostracod genera Bairdia Paraparchites. 2) Permo-Pennsylvanian faunas. North Central Ellesmere Is. N.W.T.	1974-75	3,475		33
Ford, D.C. Dept. of Geography McMaster Univ.	SSC/ASC EMRC	Preparation of a monograph on karsts in Canada.	1974	5,156	(B.17)	33
Ford, D.C. Dept. of Geography McMaster Univ.	EMRC	Stable isotope studies of the massive sulfide deposits, wall rocks, and contained ground ice at Nanisivik Zinc/Lead Mine, Baffin Island.	1983-84	7,500		33
Ford-Dolby, J. Calgary, Alta.	SSC/ASC EMRC	Palynological analysis of field samples from the Jurassic period of Arctic Canada.	1980	1,600	(B.83)	33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Ford-Dolby, J. Calgary, Alta.	SSC/ASC EMRC	Palynological determinations of field samples from Triassic of Arctic Canada.	1980	2,400	(B.91)	33
Ford-Dolby, J. Calgary, Alta.	SSC/ASC EMRC	Palynological determinations of field samples from Triassic Rocks, Ellesmere Island, District of Franklin.	1981	2,250	(B.102)	33
Francis, D.M. Dept. of Geological Sciences McGill Univ.	NRCC/CNRC	Lherzolite xenoliths and the nature of the upper mantle. Origin of intrusive, cumulate ultramafic bodies in the Kluane Ranges, Yukon Territory.	1976-77	6,000		33
Francis, D.M. Dept. of Geological Sciences McGill Univ.	NRCC/CNRC	Development of a quantitative energy dispersive system on existing microprobe.	1976-77	35,000		33
Fulford, J.A. Centre for Radio Science, Physical Sciences Univ. of Western Ontario	SSC/ASC CD/MC	Study program of measurement and analysis of the structure of inhomogeneities in the polar ionosphere.	1978	45,043	(B.58)	33
Fyson, W.K. Dept. of Geology Ottawa Univ.	INAC/AINC	Yellowknife Supracrustal Basin: Clan Lake Project.	1981-82	9,000		33
Fyson, W.K. Dept. of Geology Univ. of Ottawa	NRCC/CNRC NSERCC/ CRSNGC	Structural patterns in metamorphic rocks.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	9,200 10,495 7,500 8,130 8,618 12,000 13,176 14,494 16,500 17,490		33
G.A. Noel and Associates Vancouver, B.C.	SSC/ASC EMRC	Compilation of all available data on distribution and nature of cenozoic rocks and structures in the Western Canadian Cordillera of B.C. and Yukon.	1977	4,000	(B.49)	33

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Garland, G.D. Dept. of Physics Univ. of Toronto	EMRC	Heat flow through lake bottoms in the Precambrian Shield.	1976-77	3,400		33
Geological Association of Canada Ottawa	NSERCC/ CRSNGC	Scientific Publication Grants/Subventions à des publications scientifiques: Jurassic-Cretaceaous Biochronology and Biogeography of North America.	1982-83	8,500		33
Geomarine Associates Limited Halifax, N.S.	SSC/ASC EMRC	Operation of the rockcore Drill on CSS Hudson.	1982	35,617	(B.112)	33
Godwin, C.I. Dept. of Geological Sciences Univ. of British Columbia	SSC/ASC INAC/AINC	Fluid inclusion study of sulphide deposits of the Ogilvie and Mackenzie Mountains.	1976	9,000	(B.42)	33
Godwin, C.I. Dept. of Geological Sciences Univ. of British Columbia	SSC/ASC INAC/AINC	Evaluation of the geology of the Guano showing near Ross River, Yukon Territory.	1977	10,147	(B.52)	33
Godwin, C.I. Dept. of Geological Sciences Univ. of British Columbia	EMRC	Analysis of metal and rare earth element (REE) zonation in baritic stratiform and volcanogenic deposits, Canadian Cordillera. To develop genetic and exploration models.	1980-81	9,500		33
Godwin, C.I. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Metal and rare earth element zonation in baritic stratiform and volcanogenic deposits, Canadian Cordillera.	1980-81 1981-82 1982-83	8,500 625 10,799		33
Godwin, C.I. Dept. of Geological Sciences Univ. of British Columbia	EMRC	Lithogeochemical study, with special emphasis on REE, on baritic stratiform deposits in the Canadian Cordillera; development of genetic and exploration models.	1981-82	10,000		33

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Godwin, C.I. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Application of galena and rock lead isotope analyses to metallogeny of the Canadian Cordillera.	1983-84	11,660		33
Goodwin, A.M. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	Archean volcanic petrogenesis and early crustal growth.	1982-83 1983-84	20,000 21,200		33
Gregory, P.C. Dept. of Physics Univ. of British Columbia	NSERCC/ CRSNGC	Radio patrol of the northern milky way: A survey for variable radio sources.	1983-84	28,620		33
Halls, H.C. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	Paleomagnetism of Precambrian rocks.	1982-83 1983-84	16,000 16,960		33
Halls, H.C. Dept. of Geology Univ. of Toronto	EMRC	Paleomagnetic and fabric studies of igneous rocks from the Sverdrup Basin.	1983-84	7,700		33
Halls, H.C. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	Paleomagnetism of igneous rocks from the Sverdrup Basin, NWT.	1983-84	3,710		33
Hastie, J. Vancouver, B.C.	SSC/ASC EMRC	Processing of rock collections from Axel Heiberg Island.	1983	3,300	(B.125)	33
Hay, J.E. Dept. of Geography Univ. of British Columbia	EC	An objective analysis of Northern hemisphere height and thickness anomalies (1946-1978).	1980-81 1981-82	3,500 5,100		33
Hildebrand, R. Dept. of Geology Memorial Univ. of Newfoundland	INAC/AINC	Geological studies of the Great Bear Lake Silver District, N.W.T.	1979-80	6,000		33
Hills, L.V. Dept. of Geology and Geophysics Univ. of Calgary	EMRC	Paleobotany of the Beaufort Formation, Meighen Island, Arctic Canada.	1974-75	7,500		33

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Hills, L.V. Dept. of Geology and Geophysics Univ. of Calgary	EMRC	Carpology of the Beaufort formation.	1977-78	4,500		33
Hills, L.V. Dept. of Geology and Geophysics Univ. of Calgary	CC/CAC	Geology, Paleobotany and Palynology. Historical development of flora and climatic and evolutionary shifts in the Beaufort Formation, Arctic Canada.	1977-78	33,844		33
Hills, L.V. Dept. of Geology and Geophysics Univ. of Calgary	CC/CAC	Paleobotany, paleoclimatology of the Beaufort Formation, Arctic Canada.	1978-79	39,925		33
Hofer, L. Haines Highway, Y.T.	SSC/ASC EMRC	Operation of a seismograph station at Dezadeash Lake, Yukon Territory.	1980	900	(B.93)	33
Hofstee, J. Dept. of Physics Laurentian Univ. of Sudbury	NRCC/CNRC	Study of spatial structure in auroral plasma, the two bistatic scatter circuits.	1974-75 1975-76	4,000 4,195		33
Hogarth, D.D. Dept. of Geology Univ. of Ottawa	NRCC/CNRC	1) Igneous and metamorphic history of S. Gatineau region. 2) Metamict minerals. 3) Genesis and nature of sodalite group minerals 4) Petrology of "soapstone". S. Baffin Island.	1975-76 1976-77 1977-78	7,800 8,000 8,672		33
Huntec ('70) Limited Toronto, Ont.	SSC/ASC EMRC	Interpretation of shallow seismic profiling records of Lancaster Sound.	1974	11,000	(B.13)	33
Huntec ('70) Limited Scarborough, Ont.	SSC/ASC EMRC	Deep tow seismic survey off Baffin Island.	1980	49,981	(B.92)	33
IFG Company Brampton, Ont.	SSC/ASC NRCC/CNRC	Vector magnetometers for the Canadian Auroral Network for the Origins of Plasma in the Earth's Neighbourhood Program Unified Study.	1983	350,298	(B.129)	33
Irish, E.J.W. Calgary, Alta.	SSC/ASC EMRC	Provision of scientific editorial services for publications in the field of geology of Western and Arctic Canada.	1983	2,000	(B.104)	33
Jeletzky, J.A. Ottawa, Ont.	SSC/ASC EMRC	Provide a manuscript presenting formal descriptions of newly named cretaceous rock-units in the Northern Yukon and north western district of Mackenzie.	1983	3,500	(B.123)	33

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Jones, B. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Biostratigraphic zonation of upper silurian platform carbonate sequences, Arctic Canada.	1978-79	7,600		33
Jones, B. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Devonian brachiopods of Arctic Canada.	1979-80	11,300		33
Jones, B. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Upper silurian and lower devonian brachiopods of Arctic Canada.	1980-81 1981-82 1982-83	14,500 14,500 18,422		33
Jones, B. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Silurian-Devonian biostratigraphy of Western Canada and Arctic Canada.	1983-84	33,860		33
Justice, J. and Lawton, D.C. Dept. of Geology and Geophysics Univ. of Calgary	SSC/ASC EMRC	Enhancement of high resolution, shallow, multichannel reflection seismic profile data for improved interpretation in the southern Beaufort Sea.	1983	93,998	(B.121)	33
Kenting Big Indian Drilling Calgary, Alta.	SSC/ASC EMRC	Exploratory borehole drilling at two locations in the Yukon coastal area.	1974	74,620	(B.13)	33
Kenting Exploration Services Limited Calgary, Alta.	SSC/ASC EMRC	Survey and evaluation of the gravity field over Great Slave Lake, Northwest Territories.	1976	105,129	(B.35)	33
Kerr, J.W. Calgary, Alta.	SSC/ASC EMRC	Compilation of geological maps of Somerset Island and northern Boothia Peninsula.	1981	4,900	(B.103)	33
Kerrich, R. Dept. of Geology Univ. of Western Ontario	NSERCC/ CRSNGC	Thermal and volume history of Archaean oceans with geochemical implications.	1981-82 1982-83 1983-84	22,500 27,000 28,620		33
Kerrich, R., Fyfe, W.S. and Kronberg, B.I. Dept. of Geology Univ. of Western Ontario	NSERCC/ CRSNGC	Running light stable isotope and spark source mass spectrometry labs.	1983-84	31,800		33

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Kerrich, R. et al. Dept. of Geology Univ. of Western Ontario	NSERCC/ CRSNGC	Mass spectrometer for light stable iostope analysis of geological materials.	1981-82	148,355	33
Kerrich, R. et al. Dept. of Geology Univ. of Western Ontario	NSERCC/ CRSNGC	Hydrogen-deuterium system.	1983-84	40,000	33
King, J. Dept. of Geology Queen's Univ. at Kingston	INAC/AINC	Structural metamorphic history of Eastern Point Lake area, N.W.T.	1979-80	5,000	33
King, M.S. Dept. of Geological Sciences Univ. of Saskatchewan	EMRC	Acoustic velocity, resistivity and thermal conductivity measurements on frozen Beaufort Sea bottom core samples.	1978-79	2,300	33
Klovan, J.E. Dept. of Geology Univ. of Calgary	NRCC/CNRC	1) Application of quantitative procedures to geologic problems. 2) Devonian stratigraphy of Canadian Arctic.	1974-75	7,000	33
Koehler, J.A.R. et al. Dept. of Physics Univ. of Saskatchewan et al.	NSERCC/ CRSNGC	Canadian Auroral Network for the OPEN Program (CANOPUS).	1982-83 1983-84	85,000 53,476	33
Koehler, R.A. Dept. of Physics York Univ.	NRCC/CNRC	1) Interferometer system for airglow and auroral studies. 2) Probe system for ion temperature studies.	1976-77	1,000	33
Koehler, R.A. Dept. of Physics York Univ.	NRCC/CNRC	Airglow and auroral studies using optical interferometers and probes.	1977-78	3,000	33
Koehler, R.A. Dept. of Physics York Univ.	NSERCC/ CRSNGC	Airglow, auroral and cleft studies.	1978-79	3,000	33
Koehler, R.A. Dept. of Physics York Univ.	NSERCC/ CRSNGC	Auroral and cleft region studies.	1981-82 1982-83 1983-84	6,000 6,930 7,346	33

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Koehler, R.A. Dept. of Physics York Univ.	NSERCC/ CRSNGC	Scanning wide-angle Michelson interferometer system.	1982-83	23,500		33
Lambert, R.S.J. Dept. of Geology Univ. of Alberta	NRCC/CNRC	1) Integrated petrogenetic, chemical and isotope studies in the N.W.T. and the crystalline complexes of eastern B.C. 2) Integrated petrogenetic, chemical and isotope studies of the Leven schists, Scotland.	1974-75	11,000		33
Lambert, R.S.J. Dept. of Geology Univ. of Alberta	NRCC/CNRC	Isotopic and geochemical researches applied to continental margin plate tectonics and Archean continental structure.	1975-76 1976-77 1977-78	19,500 20,000 21,680		33
Lambert, R.S.J. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Isotopic and geochemical researches applied to continental margin tectonics and the Archean.	1978-79 1979-80 1980-81	28,600 29,601 32,502		33
Lawnicka, P. Dept. of Geology Univ. of Manitoba	SSC/ASC INAC/AINC	Metallogenic studies in the proterozoic belt of copper mineralization, Ogilvie and Wernecke Mountains, Yukon and adjacent, Northwest Territories.	1976	6,186	(B.40)	33
Lawton, D.C. Dept. of Geology and Geophysics Univ. of Calgary	SSC/ASC EMRC	Gravity study across the Norman Range adjacent to Norman Wells, Northwest Territories, to evaluate potential involvement of precambrian and/or early cambrian rocks in the deformation.	1980	14,307	(B.88)	33
Legault, J.A. Dept. of Earth Sciences Univ. of Waterloo	EMRC	Palynological investigation of the Road River and Besa River formation, northwestern Canada.	1977-78 1978-79 1979-80	5,950 5,000 4,000		33
Legault, J.A. Dept. of Earth Sciences Univ. of Waterloo	NRCC/CNRC NSERCC/ CRSNGC	Early Paleozoic palynomorphs and stratigraphy.	1977-78 1978-79 1979-80	5,650 7,000 8,000		33
Legault, J.A. Dept. of Earth Sciences Univ. of Waterloo	NSERCC/ CRSNGC	Palynostratigraphy of the Early Paleozoic of Canada.	1980-81 1981-82	8,500 3,600		33

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Legault, J.A. Dept. of Earth Sciences Univ. of Waterloo	NSERCC/ CRSNGC	Palynostratigraphy of the Lower Paleozoic of Canada.	1982-83	8,500	33
Legault, J.A. Dept. of Earth Sciences Univ. of Waterloo	NSERCC/ CRSNGC	Lower Paleozoic Palynostratigraphy of Canada.	1983-84	11,660	33
Lehn, W.H. Dept. of Electrical Engineering Univ. of Manitoba	NSERCC/ CRSNGC	The Arctic mirage.	1979-80 1980-81 1981-82	3,000 3,294 3,623	33
Lehn, W.H. Dept. of Electrical Engineering Univ. of Manitoba	NSERCC/ CRSNGC	Atmospheric refraction phenomena.	1982-83 1983-84	6,000 7,950	33
Lehn, W.H. and Sawatzky, H.L. Dept. of Electrical Engineering Univ. of Manitoba	NSERCC/ CRSNGC	The Arctic mirage.	1978-79	2,500	33
Lenz, A.C. Dept. of Geology Univ. of Western Ontario	NRCC/CNRC	Lower paleozoic biostratigraphy taxonomy and local and regional paleoecology of Ontario, western and northern Canada, and of northern Europe.	1974-75	10,000	33
Lenz, A.C. Dept. of Geology Univ. of Alberta	NRCC/CNRC	Lower and middle paleozoic paleontology, biostratigraphy and fossil community analysis.	1975-76 1976-77 1977-78 1978-79 1979-80 1980-81	12,675 13,000 14,092 20,900 21,632 23,752	33
Lenz, A.C. Dept. of Geology Univ. of Western Ontario	NSERCC/ CRSNGC	Paleontology, paleoecology, biostratigraphy and stratigraphy of lower paleozoic of Northern and Arctic Canada.	1981-82 1982-83 1983-84	26,000 30,000 31,832	33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Lenz, A.C. Dept. of Geology Univ. of Western Ontario	NSERCC/ CRSNGC	To support visit by: X. Chen, Academia Sinica, Nanjing, China, for research on Lower and middle ordovician graptolite biostratigraphy and taxonomy northern Canadian Cordillera, Quebec, and western Newfoundland, and comparison with similar age graptolites of China.	1983-84	2,400		33
Lerbekmo, J.F. Dept. of Geology Univ. of Alberta	NRCC/CNRC	1) Composition and fall characteristics of White River Ash, Yukon. 2) Sedimentation models and correlation of Edmonton Formation, Alta. 3) Genesis of petroleum reservoir rocks, Alta.	1974-75 1975-76	5,800 6,615		33
Lerbekmo, J.F. Dept. of Geology Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	1) Sedimentation and correlation of upper cretaceous and paleocene continental coal-bearing formations in Alberta 2) Genesis of petroleum reservoir rocks in Alberta and the North West Territories.	1976-77 1977-78 1978-79	4,000 4,336 4,556		33
Les Consultants BMJ Incorporée Dorval, Qué.	SSC/ASC EMRC	Relevés gravimétriques de précision en Colombie-Britannique et au Yukon.	1981	51,641	(B.100)	33
Les Releves Géophysiques, Incorporée Québec, Qué.	SSC/ASC EMRC	Inspection et mise à jour des reseaux de répeteurs magnétiques dans l'est de l'Arctique.	1982	31,650	(B.114)	33
Longstaffe, F.J. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Physico-chemical investigations of water-rock interaction in low-temperature environments.	1981-82 1982-83 1983-84	11,000 20,200 21,200		33
Ludvigsen, R. Dept. of Geology Univ. of Toronto	EMRC	Ordovician trilobite biostratigraphy of the Northern Cordillera.	1976-77 1977-78	4,300 6,100		33
Ludvigsen, R. Dept. of Geology Univ. of Toronto	NRCC/CNRC	Biostratigraphy and community paleoecology of Ordovician trilobites from the northern Cordillera.	1976-77 1977-78	6,000 8,150		33
Macqueen, R.W. Dept. of Earth Sciences Univ. of Waterloo	EMRC	Geology of Devonian radioactive and metal-bearing shales, Pine Point region, District of Mackenzie.	1977-78 1978-79	2,500 2,500		33
Mamet, B.L. Dép. de Geologie Univ. de Montreal	EMRC	Carboniferous foraminifiers and algae. British Columbia, Yukon and Districts of Mackenzie and Franklin.	1983-84	5,000		33

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Mamet, B.L. Dep. de Géologie Univ. de Montréal	EMRC	Taxonomy and stratigraphy of carboniferous foraminifers and algae, British Columbia, Yukon, and District of Mackenzie.	1979-80 1980-81	6,660 7,000		33
Manson, A.H. Institute of Space and Atmospheric Studies Univ. of Saskatchewan	NRCC/CNRC	IMS - Auroral particle influx and atmosphere dynamics.	1976-77	3,450		33
Manson, A.H. Dept. of Physics Univ. of Saskatchewan	NRCC/CNRC	Atmospheric wave motions and energetics at an auroral location (L4.4).	1974-75	20,100		33
Marshall Macklin Monaghan Limited Don Mills, Ont.	SSC/ASC EMRC	Survey and evaluation of the gravity field in the area of the east arm of Great Slave Lake.	1981	199,931	(B.103)	33
McCann, S.B. Dundas, Ont.	SSC/ASC EMRC	Provision of coastal geology maps for Northwest Devon Island and Northeast Bathurst Island, Northwest Territories.	1980	4,796	(B.89)	33
McElhanney Surveying and Engineering Limited Vancouver, B.C.	SSC/ASC EMRC	Survey and evaluation of the gravity field east of the Ottawa Islands in Hudson Bay.	1978	199,992	(B.68)	33*
McEwen, D.J. Dept. of Physics Univ. of Saskatchewan	NRCC/CNRC NSERCC/ CRSNGC	Auroral particles and emissions.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	26,000 14,040 14,500 20,000 24,000 25,000 27,450 30,195 45,500 48,230		33
McEwen, D.J. Dept. of Physics Univ. of Saskatchewan	NRCC/CNRC	Extreme ultraviolet spectrometer.	1975-76	14,550		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
McEwen, D.J. Dept. of Physics Univ. of Saskatchewan	NSERCC/ CRSNGC	Rocket instrument components.	1979-80	9,000		33
McEwen, D.J. Dept. of Physics Univ. of Saskatchewan	NSERCC/ CRSNGC	Spectrum analyzer.	1981-82	8,908		33
McEwen, D.J. et al. Dept. of Physics Univ. of Saskatchewan	NSERCC/ CRSNGC	Pulsating aurora campaign.	1979-80	12,000		33
McEwen, D.J. et al. Dept. of Physics Univ. of Saskatchewan et al.	NSERCC/ CRSNGC	Auroral modelling campaign (ARIES)	1983-84	49,640		33
Miall, A.D., Schwerdtner, W.M. and Norris, G. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	Geological development of Sverdrup Basin.	1982-83	4,000		33
M.J. O'Connor and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Conduct an evaluation of seabed stability conditions in the southern Beaufort Sea.	1981	80,000	(B.104)	33
M.J. O'Connor and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Investigation of geotechnical zonation and engineering implications of seabed sediments, Canadian Beaufort Sea.	1983	97,000	(B.121)	33
M.J. O'Connor and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Evaluation of seabed geology and stability conditions of the western Beaufort Sea.	198-	95,000	(B.121)	33
Moon, W. Dept. of Earth Sciences Univ. of Manitoba	NSERCC/ CRSNGC	Crust and upper mantle study of Precambrian shield of Canada.	1980-81	8,500		33
Moon, W. Dept. of Earth Sciences Univ. of Manitoba	NSERCC/ CRSNGC	Digitizer.	1980-81	8,054		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Morris, W.A. Ottawa, Ont.	SSC/ASC EMRC	Paleomagnetism of the Little Dal Group, Mackenzie Mountains, N.W.T.	1980	2,500	(B.91)	33
Nielsen, P.A. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Mineralogy and petrology of the Mattberry Lake area, NWT.	1980-81	7,500		33
Norris, G. Dept. of Geology Univ. of Toronto	EMRC	Triassic palynostratigraphy of the Eastern Sverdrup Basin, Arctic Canada	1983-84	4,000		33
Norris, G. Dept. of Geology Univ. of Toronto	EMRC	Upper Jurassic-Cretaceous palynostratigraphy and local provinces of Canada.	1974-75	5,000		33
Norris, G. Dept. of Geology Univ. of Toronto	EMRC	Jurassic-Cretaceous palynostratigraphy of western and Arctic Canada: a comparative study with European stratotypes.	1975-76 1976-77 1977-78 1978-79	4,500 5,100 2,970 2,000		33
Norris, G. Dept. of Geology Toronto, Ont.	SSC/ASC EMRC	Paleontologic, biostratigraphic and environmental interpretation of microfloras in Imperial Nutkak C-22 well, District of Mackenzie.	1978	5,500	(B.65)	33
Norris, G. Dept. of Geology Univ. of Toronto	SSC/ASC EMRC	Tertiary palynological studies in the Beaufort Sea and Mackenzie Delta.	1980	4,030	(B.93)	33
Norris, G. Dept. of Geology Univ. of Toronto	EMRC	Upper cretaceous and tertiary palynostratigraphy, Arctic Canada.	1981-82	5,800		33
Norris, G. Dept. of Geology Univ. of Toronto	EMRC	Palynostratigraphy of the Eureka Sound formation, Ellesmere and Axel Heiberg Islands, N.W.T.	1982-83	5,000		33
Northern Seismic Analysis Echo Bay, Ont.	SSC/ASC EMRC	Analysis of Beaufort Sea seismograms.	1982	10,000	(B.109)	33
Oldershaw, A.E. Dept. of Geology and Geophysics Univ. of Calgary Calgary, Alta.	SSC/ASC INAC/AINC	Stratigraphy and sedimentary study of the Sekwi formation in the Mackenzie mountains, Northwest Territories.	1976	10,412	(B.40)	33

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Palmer, H.C. Paleomagnetic Laboratory Univ. of Western Ontario London, Ont.	SSC/ASC EMRC	Paleomagnetic measurements of Victoria Island cores.	1979	6,000	(B.74)	33
Parsons, N.R. Dept. of Physics Univ. of Calgary	NRCC/CNRC	Optical auroral and related studies.	1974-75 1975-76 1976-77 1977-78	17,000 19,395 19,890 15,000		33
Parsons, N.R. Dept. of Physics Univ. of Calgary	NRCC/CNRC	IMS - Real-time observations of auroral emissions in the magnetospheric cleft using ground-based image-intensifier TV techniques.	1976-77	2,850		33
Pearce, T.H. Dept. of Geology Queen's Univ. at Kingston	SSC/ASC EMRC	Petrological studies relating to resource evaluation in the District of Mackenzie, Northwest Territories.	1974	7,500	(B.15)	33
Perry, D.G. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Biostratigraphy, taxonomy, paleoecology of Siluro-Devonian brachiopods, conodonts, trilobites of northern Canada.	1977-78 1978-79 1979-80	6,650 10,584 12,000		33
Perry, D.G. Dept. of Geological Sciences Univ. of British Columbia	EMRC	Silurian trilobite biostratigraphy of Mackenzie Mountains, Northwest Territories.	1979-80	5,000		33
Petrovich, M. Ottawa, Ont.	SSC/ASC EMRC	Paleontology and sedimentology of ordovician strata in the Ottawa embayment and biostratigraphic comparison with Western and Arctic Canada.	1980	2,000	(B.89)	33
Photogravity Surveys Limited Calgary, Alta.	SSC/ASC EMRC	Survey and evaluation of gravity and bathymetry in the Belcher Islands area of Hudson Bay.	1977	43,565	(B.46)	33*

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Price, R.A. Dept. of Geological Sciences Queen's Univ. at Kingston	NRCC/CNRC NSERCC/ CRSNGC	Cordilleran tectonics, and the nature and significance of variations in tectonic style.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	16,050 18,310 18,500 20,054 21,257 23,000		33
Price, R.A. Dept. of Geological Sciences Queen's Univ. at Kingston	NSERCC/ CRSNGC	Cordilleran tectonics, orogenic mechanisms, and crustal evolution.	1980-81	20,000		33
Price, R.A. Dept. of Geological Sciences Queen's Univ. at Kingston	NSERCC/ CRSNGC	Cordilleran tectonics and evolution of continental lithosphere.	1981-82	29,000		33
Pulsating Aurora Campaign Workshops Saskatoon	NSERCC/ CRSNGC	Conference Grants SK - April 1980 & Ottawa, ON - August 1980.	1980-81	4,477		33
Raasch and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Paleontological and stratigraphic studies of subsurface and outcrop developments of the Slave Point and related formations in the district of Mackenzie and adjacent regions.	1974	4,000	(B.13)	33
Raasch and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological study of permian and pennsylvanian brachiopoda fossils from northern Ellesmere Island.	1976	750	(B.44)	33
Rafek, M.B. Dept. of Geological Sciences Univ. of Saskatchewan	NSERCC/ CRSNGC	Micropaleontological study of the Triassic of the Canadian Cordillera.	1979-80 1980-81	7,500 5,852		33
Rafek, M.B. Dept. of Geological Sciences Brock Univ.	NSERCC/ CRSNGC	1) Palaobiological study of the Canadian Proterozoic. 2) Micropaleontological study of Canadian Triassic.	1982-83	10,000		33

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Reid, I.D. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Marine seismic studies of the Canadian margin and Arctic Ocean.	1979-80	8,000		33
Reid, I.D. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Seismological studies of northern and eastern Canada and adjacent oceans.	1980-81	8,500		33
Reid, I.D. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Portable seismic recording network.	1980-81	15,200		33
Riley's Datashare International Limited Calgary, Alta.	SSC/ASC EMRC	Digitized scientific data on wells in the Arctic Islands and Mackenzie Delta areas.	1974	28,000	(B.13)	33
Risk, M.J. Dept. of Geology McMaster Univ.	NSERCC/ CRSNGC	1) Paleontology of Arctic bivalves 2) Biological destruction of reef frameworks.	1983-84	32,860		33
Rivers, C.J.S. Dept. of Earth Sciences Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Metamorphic and structural investigation in the Grenville Province, Labrador and Slave Province, N.W.T.	1982-83	10,000		33*
Rivers, C.J.S. Dept. of Earth Sciences Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Research polarizing microscope.	1982-83	16,690		33*
Rivers, C.J.S. Dept. of Earth Sciences Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Metamorphic and structural studies in the Grenville, Slave and Churchill provinces.	1983-84	18,550		33*
Rivers, T. Dept. of Geology Memorial Univ. of Newfoundland	INAC/AINC	Point Lake - Keskarrah Bay Area.	1981-82	5,500		33

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Robertson Research (North America) Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cuttings and core samples from the Panarctic Homestead Hecla J-60 well and from the Panarctic Amund Central Dome H-40 well in the District of Franklin.	1974	9,158	(B.14)	33
Robertson Research (North America) Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cuttings and core samples from the Sun K.R. Panarctic Skybattle Bay C-15 well and from the Elf Wilkins F-60 well in the District of Franklin.	1974	9,256	(B.14)	33
Robertson Research (North America) Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cuttings and core samples in the B.P. Et Al Graham C-52 well, District of Franklin.	1975	4,682	(B.23)	33
Robertson Research (North America) Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cuttings and core samples from seven wells in the district of Franklin.	1975	27,160	(B.24)	33
Robertson Research (North America) Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cuttings and core samples from Isachsen J-37 well, District of Franklin.	1975	6,545	(B.31)	33
Robertson Research (North America) Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cutting and core samples from Drake Point D-68 well and Pollux G-60 well, District of Franklin.	1976	12,500	(B.34)	33
Robertson Research (North America) Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cuttings and core samples from the Three Wells, District of Franklin.	1976	22,412	(B.43)	33
Robertson Research (North America) Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cutting and core samples from two wells in the District of Mackenzie.	1977	9,231	(B.53)	33

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Roots, C. Dept. of Geology Carleton Univ.	INAC/AINC	Paleozoic volcanics of Mt. Harper, Dawson Area.	1981-82	1,000		33
Ross, C.A. Bellingham, Washington, USA	SSC/ASC EMRC	Biostratigraphic studies of upper paleozoic rocks by micropaleontological studies and provision of reports on about 1100 samples of upper paleozoic fusulinid foraminifera from British Columbia and the District of Franklin.	1974	13,300	(B.17)	33
Ross, G.M. Dept. of Geology Carleton Univ.	INAC/AINC	Sedimentology and stratigraphy of the Hornby Bay and Dismal Lakes Groups, N.W.T.	1979-80	21,400		33
Rostoker, G. Dept. of Physics Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Large scale geomagnetic activity in the auroral zone.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	23,000 26,235 26,910 34,000 33,920 35,107		33
Rostoker, G. Institute of Earth and Planetary Physics Univ. of Alberta	SSC/ASC EMRC	Interpretation of polar cap and auroral oval equivalent current flow using inversion techniques.	1976	9,000	(B.39)	33
Rostoker, G. Dept. of Physics Univ. of Alberta	NRCC/CNRC	7 Transistorized riometers with standard lid. 7 air shippable antenna kits, and 1 lid with controls for bench work.	1976-77	12,230		33
Rostoker, G. Dept. of Physics Univ. of Alberta	NRCC/CNRC	IMS Geomagnetic activity in the auroral zone.	1976-77 1977-78 1978-79	37,050 39,130 45,000		33
Rostoker, G. Dept. of Physics Univ. of Alberta	EMRC	Study on east-west asymmetries in auroral zone current distributions during magnetic substorms.	1977-78	10,000		33
Rostoker, G. Dept. of Physics Univ. of Alberta	NSERCC/ CRSNGC	Geomagnetic activity in the auroral zone.	1980-81 1981-82 1982-83	45,000 49,500 53,173		33

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Rostoker, G. and Samson, J.C. Dept. of Physics Univ. of Alberta	NSERCC/ CRSNGC	Colour graphics terminal.	1982-83	24,820		33
Rostoker, G. et al. Dept. of Physics Univ. of Alberta et al.	NSERCC/ CRSNGC	Canadian auroral network for the Co-op OPEN program (CANOPUS).	1981-82	65,000		33
Rouse, G.E. Dept. of Botany Univ. of British Columbia	NRCC/CNRC	Palynology of late cretaceous and cenozoic sediments from British Columbia and Arctic Canada.	1974-75 1975-76 1976-77	11,080 12,640 12,964		33
SED Systems Incorporated Saskatoon, Sask.	SSC/ASC NRCC/CNRC	Supplementary definition study for data collection system for Canadian Auroral Network for the OPEN Program Unified Study project.	1983	80,000	(B.126)	33
Sarjeant, W.A.S. Dept. of Geological Sciences Univ. of Saskatchewan	NRCC/CNRC NSERCC/ CRSNGC	Dinoflagellates and acritarchs of the mesozoic: stratigraphical application in Western and Arctic Canada and use in intercontinental correlation.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82	9,700 11,065 18,000 19,512 20,683 21,000 23,058 25,364		33
Sarjeant, W.A.S. Dept. of Geological Sciences Univ. of Saskatchewan	NSERCC/ CRSNGC	Fossil dinoflagellates and acritarchs: morphology, evolutionary relationships and application in palaeoecology and biostratigraphy.	1982-83 1983-84	28,000 29,680		33
Scarfe, C.M. Univ. of Alberta	INAC/AINC	To study the magnetic and metamorphic history of the Athapuscow Aulacogen, N.W.T.	1975-76	4,000		33
Scarfe, C.M. Dept. of Geology Univ. of Alberta Edmonton, Alta.	SSC/ASC INAC/AINC	Study of the magmatic and metamorphic history of the Athapuscow Aulacogen, Northwest Territory.	1976	7,620	(B.41)	33
Schwarz, E.J. Dep. de Genie mineral Ecole Polytechnique	NSERCC/ CRSNGC	History of vertical movements of the Precambrian shield.	1982-83 1983-84	12,500 19,080		33

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Schwerdtner, W.M. Dept. of Geology Univ. of Toronto	NRCC/CNRC NSERCC/ CRSNGC	Paleostrain analysis in the Canadian Shield.	1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	10,500 11,382 12,065 16,500 18,117 19,929 23,000 24,380	33
Schwerdtner, W.M. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	Deformation of anhydrite hoods of salt diapirs, Axel Heiberg Island, Canadian Arctic.	1983-84	8,480	33
Shepherd, G.G. Dept. of Physics York Univ.	NRCC/CNRC NSERCC/ CRSNGC	Optical studies of aurora and airglow.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	48,900 55,785 57,213 63,000 66,780 69,117	33
Shepherd, G.G. Dept. of Physics York Univ.	NRCC/CNRC	Wind measuring wide angle interferometer with cartridge disc drive.	1976-77	12,600	33
Shepherd, G.G. Dept. of Physics York Univ.	NSERCC/ CRSNGC	Spectral morphology and diagnostics of aurora and airglow.	1980-81 1981-82 1982-83	75,000 82,500 95,288	33
Shepherd, G.G. Dept. of Physics York Univ.	NSERCC/ CRSNGC	Upgrading of existing data processing and optical facilities.	1981-82	19,500	33
Shepherd, G.G. Dept. of Physics York Univ.	NSERCC/ CRSNGC	Optical investigation of auroral processes and atmosphereic structure.	1983-84	10,600	33
Shepherd, G.G. Dept. of Physics York Univ.	NSERCC/ CRSNGC	Polarized wide angle michelson interferometer.	1983-84	12,700	33
Sheppard, G.G. Centre for Research in Experimental Space Science York Univ.	NRCC/CNRC	IMS Program of ground-based measurements of dayside aurora in the vicinity of Cape Perry.	1976-77	20,240	33

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Siddiqui, Q.A. Dept. of Geology Saint Mary's Univ.	NSERCC/ CRSNGC	Cenozoic ostracods from drillsites in the Mackenzie Delta and Beaufort Sea.	1982-83 1983-84	10,000 8,480	33
Slawson, W.F. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Earthquake recurrence rate: Beaufort-Cruickshank Fault, B.C.	1983-84	9,540	33
Smith, M.J. Dept. of Geology Univ. of Manitoba	INAC/AINC	A study of the Cenozoic volcanics in the Mt. Skukum and Mt. Byng area.	1981-82	17,000	33
Smith, M.W. Dept. of Geography Carleton Univ.	EC	To provide a digital simulation of the thermal regime beneath arctic streams.	1977-78	3,100	33
Smith, P.L. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Lower Jurassic biostratigraphy of North America and the geologic history of the northern Bowser basin.	1982-83 1983-84	10,000 10,600	33
Sofko, G.J. Dept. of Physics Univ. of Saskatchewan	NRCC/CNRC	Studies of polarization of scattered electromagnetic waves from auroral plasma.	1974-75	5,000	33
Sofko, G.J. Dept. of Physics Univ. of Saskatchewan	NRCC/CNRC	Studies of polarization, fading, and Doppler spectrum of scattered electromagnetic waves from auroral plasma.	1975-76 1976-77	4,680 2,000	33
Sofko, G.J. Dept. of Physics Univ. of Saskatchewan	NRCC/CNRC	A coordinated auroral study using radio, optical and magnetic data.	1977-78	4,500	33
Sofko, G.J. Dept. of Physics Univ. of Saskatchewan	NSERCC/ CRSNGC	High time-resolution spectral and polarization studies of 42MH3 auroral scatter.	1978-79	8,000	33
Sofko, G.J. Dept. of Physics Univ. of Saskatchewan	NSERCC/ CRSNGC	Spectral and polarization studies of 42MH3 auroral scatter; analysis of stare data.	1979-80 1980-81 1981-82	10,000 10,980 12,078	33

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Sofko, G.J. Dept. of Physics Univ. of Saskatchewan	NSERCC/ CRSNGC	VHF Doppler radar studies of scatter from auroral electrojet plasma irregularities.	1982-83 1983-84	23,500 24,910		33
Sofko, G.J. and Koehler, J.A.R. Dept. of Physics Univ. of Saskatchewan	NSERCC/ CRSNGC	VHF Doppler radar summer cleft campaign.	1982-83	8,000		33
Sofko, G.J. et al. Dept. of Physics Univ. of Saskatchewan et al.	NSERCC/ CRSNGC	VHF Doppler radar, ionosonde and magnetometer for the Summer Cleft Campaign.	1982-83	29,100		33
Spang, J.H. Dept. of Geology and Geophysics Univ. of Calgary	NRCC/CNRC	Mechanical behaviour of the thrust plates in the front ranges of the Rocky Mountains.	1974-75 1975-76	4,725 5,365		33
Spang, J.H. Dept. of Geology and Geophysics Univ. of Calgary	NRCC/CNRC NSERCC/ CRSNGC	Mechanical behaviour of the thrust plates in the foothills and front ranges of the Canadian Rocky Mountains.	1976-77 1977-78 1978-79 1979-80 1980-81	5,500 3,500 4,134 4,279 6,773		33
Sperry Sun of Canada Limited Edmonton, Alta.	SSC/ASC EMRC	Inclinometer survey of two boreholes in Agassiz, Ellesmere Island and one on Devon Island, Northwest Territories.	1979	9,055	(B.75)	33
Spinosa, C. Star, Idaho, USA	SSC/ASC EMRC	Paleontological determinations of five collections of nautiloids from the carboniferous of western and Arctic Canada.	1979	238	(B.70)	33
Stearn, C.W. Dept. of Geological Sciences McGill Univ.	NRCC/CNRC	Paleoecology of paleozoic reefs of Canada.	1974-75 1975-76	11,650 13,250		33
Stearn, C.W. Dept. of Geological Sciences McGill Univ.	NRCC/CNRC	Scanning electron microscope.	1974-75	30,700		33
Stearn, C.W. Dept. of Geological Sciences McGill Univ.	NRCC/CNRC	Paleoecology of paleozoic reefs.	1976-77 1977-78 1978-79	14,500 15,718 16,161		33

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Stearn, C.W. Dept. of Geological Sciences McGill Univ.	EMRC	Megafaunas, lithology and paleoecological setting of the Blue Fiord formation in the Sor Fiord area of southern Ellesmere Island.	1978-79	2,000	33
Stearn, C.W. Dept. of Geological Sciences McGill Univ.	NSERCC/ CRSNGC	Paleoecology of reefs.	1979-80 1980-81 1981-82 1982-83 1983-84	18,000 19,764 21,740 25,000 26,500	33
Stearn, C.W. Dept. of Geological Sciences McGill Univ.	EMRC	Paleoecology of blue fiord carbonate rocks, Southern Ellesmere Island.	1980-81	2,000	33
Strong, D.F. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Crustal and metallogenic studies of regions bordering the North Atlantic.	1981-82 1982-83 1983-84	48,000 55,440 58,776	33*
Sullivan, H.M. Dept. of Physics Univ. of Victoria	NRCC/CNRC NSERCC/ CRSNGC	Atmospheric airglow emissions.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	6,400 3,120 1,000 2,000 2,120 2,194	33
Sullivan, H.M. Dept. of Physics Univ. of Victoria	NSERCC/ CRSNGC	Airglow emissions and auroral electric fields.	1982-83 1983-84	3,000 3,180	33
Symons, D.T.A. Dept. of Geology Univ. of Windsor	NSERCC/ CRSNGC	Paleomagnetic studies on the pre-Jurassic Geotectonic evolution of the Cordillera.	1979-80 1980-81 1981-82	16,000 17,768 19,325	33
Symons, D.T.A. Dept. of Geology Univ. of Windsor	NSERCC/ CRSNGC	Rock magnetometer facility	1980-81	73,600	33
Symons, D.T.A. Dept. of Geology Univ. of Windsor	NSERCC/ CRSNGC	Paleomagnetic studies: Cordillera and Phanerozoic Basins.	1982-83 1983-84	23,000 24,380	33

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Tan, T. Dept. of Geology Univ. of Calgary	INAC/AINC	Study of Late Triassic to Lower Cretaceous Dinoflagellates from Mackenzie King Island and Melville Island.	1976-77	600		33
Terra Surveys Limited Ottawa, Ont.	SSC/ASC EMRC	Inspection and updating of the magnetic station network in the Northwest Territories.	1977	78,412	(B.56)	33
Terra Surveys Limited Ottawa, Ontario	SSC/ASC EMRC	Precise gravity survey in the Yukon, Northwest Territory, Southern Alberta and British Columbia.	1979	45,017	(B.77)	33
Terrain Analysis and Mapping Services Limited Stittsville, Ont.	SSC/ASC EMRC	Investigation of the geology and limnology of Kluane Lake, Yukon Territory.	1977	24,865	(B.57)	33
Terraquest Surveys Limited Toronto, Ont.	SSC/ASC EMRC	Inspection and updating of the magnetic station network in parts of Manitoba, Ontario, Quebec, Newfoundland and the Northwest Territories.	1977	49,605	(B.52)	33*
Terraquest Surveys Limited Toronto, Ont.	SSC/ASC EMRC	Survey and evaluation of gravity at bench marks in Alberta, British Columbia and the Yukon.	1977	35,330	(B.53)	33
Terraquest Surveys Limited Toronto, Ont.	SSC/ASC EMRC	Precise gravity survey in Alberta, British Columbia, Yukon, Northwest Territories and Alaska.	1978	89,154	(B.65)	33
Thomson, S. Dept. of Civil Engineering Univ. of Alberta	NRCC/CNRC	Investigations of the geotechnical properties and field behaviour of overconsolidated clays and soft rocks of western Canada and NWT.	1974-75	6,900		33
Tipnis, R.S. Columbus, Ohio, USA	SSC/ASC EMRC	Paleontological (conodont) determination of field samples from Cambrian-silurian strata in Yukon Territory.	1980	2,100	(B.90)	33
Univ. of Manitoba Winnipeg, Man.	SSC/ASC EMRC	Distribution and structural setting of fertile granites and related pegmatites in the Yellowknife pegmatite field Northwest Territories.	1983	5,000	(B.125)	33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Utting, J. INRS-Pétrole Univ. du Québec à Québec	EMRC	Palynostratigraphic investigation of upper palaeozoic and triassic rocks of Arctic Canada.	1976-77 1977-78	4,500 2,750		33
Utting, J. INRS - Pétrole Univ. du Québec à Québec	SSC/ASC EMRC	Palynological study of lowermost mesozoic and uppermost paleozoic cuttings and cores from wells in the Franklin district.	1977	10,990	(B.56)	33
Veizer, J. Dept. of Geology Univ. of Ottawa	NRCC/CNRC	1) Variations in chemical composition of carbonate rocks during geologic history. 2) Geochemistry and sedimentology of the lower paleozoic carbonate sequences of Somerset and Cornwallis Islands.	1975-76	8,775		33
Venkatesan, D. Dept. of Physics Univ. of Calgary	NRCC/CNRC	IMS - Investigation of bremstrahlung x-rays with emphasis on microbursts and special attention to conjugate studies of auroral phenomena, through balloon launches at Roverval, Quebec.	1976-77 1977-78	8,000 14,090		33*
Von Bitter, P.H. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	Carboniferous and permian conodont biostratigraphy and palaeoecology, Arctic Canada.	1983 84	16,960		33
W.I.Z. TV and Stereo Electronics, Cambridge Bay, N.W.T.	SSC/ASC EMRC	Field observations and instrument checks at the geophysical observatory at Cambridge Bay, Northwest Territories.	1976 1977 1978 1979 1980 1981 1982 1983	4,000 4,000 4,400 4,400 4,800 4,800 5,200 5,500	(B.38) (B.49) (B.62) (B.73) (B.85) (B.96) (B.109) (B.121)	33
Watanabe, T. Dept. of Geophysics and Astronomy Univ. of British Columbia	NRCC/CNRC	IMS - Magnetic pulsations and related magnetospheric phenomena.	1976-77	14,000		33
Watanabe, T. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Rapid variations in the earth's magnetic field, auroral displays and natural VLF radio emissions.	1977-78 1978-79	14,000 14,000		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Watanabe, T. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Slow speed FM7 channel magnetic tape recorder.	1978-79	8,000	33
Watanabe, T. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Geomagnetic pulsations and aurorae.	1979-80 1980-81 1981-82	14,500 15,921 17,513	33
Watanabe, T. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Recording device for ultra low frequency phenomena.	1980-81	9,000	33
Watanabe, T. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Magnetic pulsations and related magnetospheric phenomena.	1982-83 1983-84	26,500 28,090	33
Watanate, T. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Dynamic spectrum recorder.	1982-83	15,226	33
Waterhouse, J.B. Dept. of Geology Univ. of Toronto	NRCC/CNRC	Correlation, paleoecology, and tectonic implications of Pennsylvanian-Permian brachiopods from Arctic and western Canada.	1974-75	15,550	33
Waterhouse, J.B. Dept. of Geology Univ. of Toronto	EMRC	Late Paleozoic brachiopods of Canadian Arctic.	1974-75	8,100	33
Westgate, J.A. Dept. of Geology Univ. of Toronto	EMRC	Fission track dating of late Cenozoic bentonites and pyroclastic deposits in the Yukon Territory and adjacent area of Alaska.	1977-78 1978-79 1979-80	6,000 6,500 5,000	33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Westgate, J.A. Dept. of Geology Univ. of Toronto	SSC/ASC EMRC	Analysis of volcanic ash from Banks Island, Northwest Territories.	1983	5,005	(B.129)	33
Woodward-Clyde Consultants Victoria, B.C.	SSC/ASC EMRC	Preparation of coastal geology maps for the Central Sverdrup Basin, Northwest Territories.	1980	13,380	(B.85)	33
Wright, J.A. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Geothermal and geomagnetic measurements in Atlantic Canada and the Eastern Arctic.	1981-82	11,000		33
Wynne-Edwards, H.R. Dept. of Geological Sciences Univ. of British Columbia	NRCC/CNRC	Geological evolution of Canadian Continental Crust.	1975-76	31,940		33
Yole, R.W. Dept. of Geology Carleton Univ.	EMRC	Petrography, diagenesis and reservoir properties of sandstones of the Parsons Group (Lower Cretaceous) Mackenzie Delta area.	1983-84	6,000		33
Young, G.M. Dept. of Geology Univ. of Western Ontario	NSERCC/ CRSNGC	Studies of Precambrian supracrustal rocks.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	12,330 14,426 14,065 15,150 16,059 16,621		33
Young, G.M. Dept. of Geology Univ. of Western Ontario	SSC/ASC INAC/AINC	Study of physical stratigraphy of proterozoic rocks of the Northern Wernecke Mountains, Yukon.	1977	9,544	(B.52)	33
Young, G.M. Dept. of Geology Univ. of Western Ontario	INAC/AINC	Physical stratigraphy of Proterozoic rocks of the Northern Wernecke Mountains, Yukon.	1977-78	10,234		33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Young, G.M. Dept. of Geology Univ. of Western Ontario	NSERCC/ CRSNGC	Stratigraphy and sedimentology of Proterozoic supracrustal rocks.	1981-82	16,600	33
Yukon Advanced Study Institute Whitehorse, Yukon	NSERCC/ CRSNGC	Conference Grants/Subventions pour conferences: The Quark Structure of Matter.	1983-84	10,000	33

GEOMORPHOLOGY AND QUATERNARY / GEOMORPHOLOGIE ET QUATERNAIRE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
AGAT Consultants Calgary, Alta.	SSC/ASC EMRC	Microfacies and sedimentological studies of carbonate samples, Yukon Territory.	1978	1,400	(B.61)	34
Alexander, K. Victoria, B.C.	SSC/ASC EC	Analysis of terrain characteristics along the Dempster Highway from North Fork Pass, Yukon to Peel River, Northwest Territories.	1979	5,500	(B.81)	34
Aylsworth, J.M. Ottawa, Ont.	SSC/ASC EMRC	Terrain inventory map compilation of specified areas in the District of Keewatin.	1979	14,790	(B.74)	34
Austin and Cumming Exploration Consultants Limited Calgary, Alta.	SSC/ASC EMRC	Micropaleontological and palynological studies of cuttings and core samples from four wells in the Mackenzie Delta, District of Mackenzie, Northwest Territories.	1978	16,975	(B.60)	34
Billard, A. Paris, France	SSHRCC/ CRSHC	Programmes d'echanges bilateraux: Stratigraphie, paleosols et paleoclimatologie du Quaternaire (York Univ., Univ. of Alberta, et Univ. du Quebec a Montreal).	1983-84	-		34
Bird and Hale Limited Toronto, Ont.	SSC/ASC INAC/AINC	Assessment of the quality and quantity of granular material sources in the Hay River area, Northwest Territories.	1977	40,825	(B.55)	34
Bird, J.B. Dept. of Geography McGill Univ.	EMRC	Periglacial geomorphic processes in east Baffin Island.	1976-77 1977-78 1978-79	2,175 3,700 3,300		34
Bird, J.B. Dept. of Geography McGill Univ.	EMRC	The stability of marine cliffs in surficial sediments in an arctic environment.	1983-84	9,000		34
Bouchard, M.A. et Occhietti, S. Dep. de Geographie Univ. du Quebec a Montreal	NSERCC/ CRSNGC	Paleoenvironnements quaternaires et paleosurfaces au Quebec et dans les regions peripheriques.	1983-84	15,000		34*
Burden, E. Dept. of Earth Sciences Memorial Univ. of Newfoundland	EMRC	Conduct analysis of the palynological component of Beaufort Sea sediment cores.	1983-84	1,664		34

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D'Anglejan, B.F. Marine Science Centre McGill Univ.	NRCC/CNRC NSERCC/ CRSNGC	Suspended matter transport and composition, and sedimentation processes near the benthic boundary layer in subarctic estuaries.	1977-78 1978-79 1979-80	13,150 13,939 14,427		34*
David, P.P. Dep. de Geologie Univ. de Montreal	NRCC/CNRC	1) Study of eolian deposits in Canada. 2) Quaternary deposits of north-central Gaspé.	1974-75	4,375		34*
David, P.P. Dep. de Geologie Univ. de Montreal	INAC/AINC	Study of eolian landforms of Canada.	1974-75	6,000		34*
David, P.P. Dep. de Geologie Univ. de Montreal	NSERCC/ CRSNGC	Study of eolian deposits in Canada.	1981-82 1982-83 1983-84	6,000 7,500 7,950		34*
EBA Engineering Consultants Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Inventory of the granular material in the Mackenzie Delta area, Northwest Territories.	1976	194,630	(B.35)	34
EBA Engineering Consultants Limited Calgary, Alta.	SSC/ASC INAC/AINC	Granular materials inventory along Haines Road and Haines Kluane section of the Alaska Highway, Yukon Territory.	1977	42,665	(B.55)	34
Ek, C.M. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Contribution a l'etude du Quaternaire du Quebec par la sédimentologie en milieu karstique.	1979-80	5,000		34*
Elson, J.A. Dept. of Geological Sciences McGill Univ.	SSC/ASC INAC/AINC	Geomorphology study of the Klondike Placer goldfields, Yukon Territory.	1975	13,788	(B.28)	34
Elson, J.A. Dept. of Geological Sciences McGill Univ.	EMRC	Genesis and differentiation of diamictons on Somerset Island, N.W.T.	1979-80 1980-81	4,000 2,000		34
England, J. Dept. of Geography Univ. of Alberta	NSERCC/ CRSNGC	Quaternary glaciation, glacio-isostasy and paleoclimatic change. Northern Ellesmere Island.	1980-81 1981-82 1982-83 1983-84	12,500 16,000 18,480 19,589		34

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Filion, L. Dep. de Géographie Univ. Laval	NSERCC/ CRSNGC	Dynamique holocène des systèmes éoliens du Québec.	1983-84	11,660	34*
Ford, D.C. Dept. of Geography McMaster Univ.	EMRC	Radiometric geochronology and geothermometry of pleistocene cave deposits, Canadian Rockies and Mackenzie Mountains, N.W.T.	1974-75 1975-76	10,500 15,500	34
Ford, D.C. Dept. of Geography McMaster Univ.	NRCC/CNRC	Groundwater flow and the development of limestone caves; the karst geomorphology of the Canadian cordillera; quaternary dating and palaeo-thermometric studies in the western cordillera of N. America.	1974-75 1975-76	15,450 17,625	34
Ford, D.C. Dept. of Geography McMaster Univ.	NRCC/CNRC NSERCC/ CRSNGC	1) Groundwater flow and cavern genesis in soluble rocks. 2) Quaternary dating and palaeothermometry. 3) Karst studies in Canada. 4) Geomorphology of the Mackenzie Mountains.	1976-77 1977-78 1978-79	22,500 24,350 25,853	34
Ford, D.C. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	1) Groundwater flow and cavern genesis in soluble rocks. 2) Quaternary dating and palaeothermometry of calcite speleotherm. 3) Karst studies in Canada.	1979-80 1980-81 1981-82 1982-83 1983-84	37,000 40,626 44,689 52,000 55,120	34
Ford, D.C. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Field fluorometer with continuous - flow door.	1980-81	5,387	34
Ford, D.C. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Karst and quaternary field research in the Mackenzie Mountains between Root River and Arctic Red River.	1983-84	8,756	34
French, H.M. Dept. of Geography and Dept. of Geology Univ. of Ottawa	NSERCC/ CRSNGC	1) Geomorphic process studies, Banks Island, Western Arctic. 2) Late Quaternary coastal and fluvial environments, Ottawa region.	1979-80 1980-81 1981-82	13,500 14,823 16,305	34
French, H.M. Dept. of Geography and Dept. of Geology Univ. of Ottawa	NSERCC/ CRSNGC	Geomorphic and permafrost studies, Banks Island and northern interior Yukon.	1982-83 1983-84	26,900 19,610	34

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
French, H.M., Lewkowicz, A.G. and Harry, D.G. Dept. of Geography Univ. of Ottawa, Univ. of Toronto and Univ. of Western Ontario	NSERCC/ CRSNGC	Geomorphic and permafrost studies, Bank Island and Northern Interior Yukon.	1983-84	15,900		34
Geo Analysis Limited Ottawa, Ont.	SSC/ASC EMRC	Study of terrain along the Alcan Pipeline route.	1977	8,060	(B.46)	34
Geomarine Associates Limited Halifax, N.S.	SSC/ASC EMRC	Completion of maps relating to the thickness of recent sediment in the Beaufort Sea.	1978	13,848	(B.56)	34
Geurts, M.A. Dep. de Géographie Univ. d'Ottawa	NSERCC/ CRSNGC	Palynostratigraphie et variations climatiques tardiglaciaires et postglaciaires.	1981-82 1982-83 1983-84	10,000 15,000 17,490		34
Geurts, M.A. Dep. de Géographie Univ. d'Ottawa	NSERCC/ CRSNGC	Application de la palynostratigraphie dans l'étude des dépots marins et glaciolacustres tardiglaciaires.	1979-80 1980-81	4,500 8,000		34
Gibling, M. Dept. of Geology Dalhousie Univ. Halifax, N.S.	SSC/ASC EMRC	Sedimentological analysis of sands from Beaufort Sea cruise.	1982	4,485	(B.111)	34
Gilbert, R. Dept. of Geography Queen's Univ. at Kingston	EMRC	Holocene lacustrine sediments in Cumberland Peninsula, Baffin Island, N.W.T.	1976-77	7,575		34
Gilbert, R. Dept. of Geography Queen's Univ. at Kingston	NRCC/CNRC	Physical limnology and lacustrine sedimentation in the eastern Canadian Arctic - comparison of proglacial and non-glacial environment.	1977-78	6,150		34
Gilbert, R. Dept. of Geography Queen's Univ. at Kingston	NSERCC/ CRSNGC	Glaciomarine sedimentary processes in Arctic fiords.	1983-83 1983-84	8,000 8,480		34

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Glacier Beds: The Ice-Rock Interface Ottawa - August 1978, Ont.	NSERCC/ CRSNGC	Conference Grants/Subventions pour conférences.	1978-79	4,975		34
Gravenor, C.P. Dept. of Geology Univ. of Windsor	NRCC/CNRC	The deposition of till from the base of moving ice.	1974-75 1975-76 1976-77	6,900 7,870 8,073		34
Gravenor, C.P. Dept. of Geology Univ. of Windosr	NRCC/CNRC NSERCC/ CRSNGC	Surface textures of heavy minerals which have undergone glacial transport: use in identifying tillites and other glaciogene deposits and relationship to vibratory motion at the base of glaciers.	1977-78 1978-79 1979-80	10,650 11,289 11,684		34
Gravenor, C.P. Dept. of Geology Univ. of Windsor	NSERCC/ CRSNGC	Environment of deposition of ancient glacial deposits.	1980-81 1981-82 1982-83	12,500 13,750 15,881		34
Gravenor, C.P. Dept. of Geology Univ. of Windsor	NSERCC/ CRSNGC	Pleistocene and pre-pleistocene glaciomarine sedimentation.	1983-84	18,020		34
Hardy Associates (1978) Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Granular materials inventory - Tuktoyaktuk drilling program sources #160 and #161.	1980	80,000	(B.82)	34
Hardy Associates (1978) Limited Calgary, Alta.	SSC/ASC EMRC	Study of the surficial geology of the area around Illisarvik, Richards Island, Northwest Territories.	1982	26,500	(B.114)	34
Harry, D.G. Dept. of Geography Univ. of Western Ontario	NSERCC/ CRSNGC	Quaternary geomorphology and permafrost studies, Banks Island.	1983-84	6,526		34
Hay, A.E. Dept. of Physics Memorial Univ. of Newfoundland	EMRC	Acoustic remote sensing and the sedimentology of Arctic fjords.	1983-84	10,000		34
Hein, F.J. Dept. of Biology Univ. of Alberta	EMRC	Sedimentology and geotechnical properties of surficial (upper 3 m) bottom sediments, Baffin Island fjords.	1983-84	7,000		34

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Hesse, R. Dept. of Geological Sciences McGill Univ.	EMRC	Labrador Sea sediments.	1975-76 1976-77 1977-78	3,000 5,000 5,500	34*
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NRCC/CNRC	Établissement d'une courbe des variations eustatiques, pour l'Est du Canada de 8 000 ans (BP) a aujourd'hui.	1975-76 1976-77	3,805 2,000	34*
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NRCC/CNRC	Exemples d'applications des paleotemperatures isotopiques: le Lac de Deschaillons et la Mer de Tyrrell.	1977-78	4,650	34*
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NSERCC/ CRSNGC	Applications de la geochimie isotopique a l'etude de paleoenvironnements quaternaires.	1978-79 1979-80	7,510 11,000	34*
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NSERCC/ CRSNGC	Spectrometre a scintillation liquide.	1978-79	26,400	34*
Hillaire-Marcel, C. Dep. des Sciences Sciences de la terre Univ. du Quebec a Montreal	NSERCC CRSNGC	Applications de la geochimie isotopique a l'etude des paleoenvironnements quaternaires dans l'est et le nord du Canada.	1980-81	14,800	34*
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NSERCC/ CRSNGC	Paleoenvironnements isotopiques continentaux et paleoclimats.	1981-82 1982-83 1983-84	14,800 25,410 26,935	34*

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Hillaire-Marcel, C. et al. Dép. des Sciences de la terre Univ. du Québec à Montreal et al.	NSERCC/ CRSNGC	Spectrometre de masse a triple collecteur pour analyses isotopiques.	1982-83	175,588		34*
Jacobs, J.D. Dept. of Geography Univ. of Windsor	NSERCC/ CRSNGC	Palaeoenvironments of the Frobisher Bay area, Baffin Island.	1980-81 1981-82	6,365 6,900		34
King, R.H. Dept. of Geography Univ. of Western Ontario	NSERCC/ CRSNGC	Soils as paleo-environmental indicators. Canadian Cordillera.	1982-83	10,000		34
La Rochelle, P. Dep. de Génie civil Univ. Laval	NRCC/CNRC	1) Proprietes fondamentales des argiles sensibles. 2) Stabilité des pentes naturelles. 3) Gel dans les sols.	1974-75 1975-76	16,950 19,335		34
Lauriol, B.M.E. Dept. of Geography Univ. of Ottawa	EMRC	Identification and preparation of a number of pre-collected fossil samples of different taxa and species from bering is for paleo-temperature extraction.	1982-83	2,125		34
Lauriol, B.M.E. Dep. de Geographie Univ. d'Ottawa	SSC/ASC EMRC	Echantillonnage et analyse du contenu isotopique d'echantillons anciens et modernes d'arbres, d'os et de carbonates, dans le but d'établir une ligne de base permettant de reconstituer l'évolution paléo-climatique de la region nord-centrale non glaciée du Yukon.	1983	4,582	(B.125)	34
Lauriol, B.M.E. Dep. de Geographie Univ. d'Ottawa	EMRC	Paléotemperatures extraites par l'analyse isotopique 180/160 du bois et des ossements, et par l'analyse densitometrique du bois à partir des rayons x, dans le nord du Yukon, Canada.	1983-84	4,700		34
M.J. O'Connor and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Study of the surficial geology of the southern Beaufort Sea.	1980	7,999	(B.83)	34
M.J. O'Connor and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Study of the surficial geology of the Continental Shelf/Mackenzie Bay area of the Beaufort Sea.	1980	44,472	(B.89)	34

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Martini, I.P. Dept. of Land Resource Science Univ. of Guelph	NSERCC/ CRSNGC	Quantitative studies of clastic sediments and rocks.	1981-82 1982-83 1983-84	18,500 21,368 22,650		34
Martini, I.P. Dept. of Land Resource Science Univ. of Guelph	NSERCC/ CRSNGC	Quantitative studies of fine grained sediments of Arctic and sub-Arctic Coasts.	1982-83	10,000		34
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC EMRC	Investigate stress history of the surficial sediments of the Beaufort Sea.	1983	22,087	(B.128)	34
Nichol, I. Dept. of Geological Sciences Queen's Univ. at Kingston	EMRC	Factors affecting lake sediment composition in the Canadian Shield.	1975-76 1976-77 1977-78	12,000 10,000 15,000		34
Occhietti, S. Dep. de Géographie Univ. du Québec à Montreal	EMRC	Application de l'aminostratigraphie, au quaternaire de l'Arctique occidental et de la région atlantique de Canada.	1983-84	7,000		34*
Osborn, G.D. Dept. of Geology and Geophysics Univ. of Calgary	NSERCC/ CRSNGC	1) Holocene/late pleistocene glacial chronology and tephrostratigraphy 2) Dynamics of glacier bergschrunds.	1982-83 1983-84	3,875 4,108		34
Page, P. Dep. des Sciences de la terre Univ. du Québec à Montreal	NSERCC/ CRSNGC	Géochimie des milieux glacio-aquatiques actuels et anciens de l'Est du Canada.	1983-84	13,780		34*
Payette, S., Allard, M. et Dionne, J.-C. Centre d'Études nordiques Univ. Laval	NSERCC/ CRSNGC	Dynamique des systèmes fluviaux et lacustres du Québec nordique.	1981-82 1982-83	52,000 61,453		34*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Payette, S. et al. Centre d'Etudes nordiques Univ. Laval	NSERCC/ CRSNGC	Processus geomorphologiques et ecologiques subarctiques et arctiques du Nord Québécois.	1983-84	13,780	34*
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NRCC/CNRC	1) Processes of deposition of five clastic sediments in the ocean. 2) Marine quaternary of Atlantic Canada.	1975-76 1976-77 1977-78	13,165 13,500 14,634	34*
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NRCC/CNRC	2 1/2" 180 lb. piston corer.	1975-76	5,369	34*
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NRCC/CNRC	3.5 kilohergs sub-bottom profiling system ORE System 1036, transducer assembly 10 kilowatt vari.	1976-77	6,600	34*
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Quaternary history and sedimentology of the eastern Canadian continental margin.	1978-79 1979-80 1980-81	23,500 24,323 26,707	34*
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	EMRC	Geological mapping and interpretation of pro-glacial sediments, Frobisher Bay and elsewhere in eastern Canada.	1981-82	10,000	34*
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Deep water sedimentology and quaternary history, offshore Eastern Canada.	1981-82	30,000	34*
Piper, D.J.W. et al. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Late quaternary studies of the eastern Canadian coastline, shelf and continental margin.	1977-78 1978-79	44,900 36,040	34*
Piper, D.J.W. et al. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Quaternary paleo-oceanography, eastern Canadian continental margin.	1980-81	69,000	34*
Post-glacial history and Sea level changes in Hudson Bay Poste-de-la-Baleine, June 1979	NSERCC/ CRSNGC	Conference Grants/Subventions pour conferences.	1979-80	5,000	34*

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R.M. Hardy and Associates Limited Calgary, Alta.	SSC/ASC INAC/AINC	Inventory of granular materials in the Tuktoyaktuk, Northwest Territories.	1977	48,451	(B.54)	34
R.M. Hardy and Associates Limited Calgary, Alta.	SSC/ASC INAC/AINC	Granular materials inventory at Tuktoyaktuk, Northwest Territories - Phase II - Geophysical Survey.	1977	24,980	(B.56)	34
R.M. Hardy and Associates Limited Calgary, Alta.	SSC/ASC INAC/AINC	Conduct a granular material inventory at Tuktoyaktuk Harbour - Phase III.	1979	70,386	(B.71)	34
Rutter, N.W. Dept. of Geology Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Quaternary history of parts of Alberta, British Columbia and Yukon and development of amino acid racemization dating techniques.	1977-78 1978-79 1979-80 1980-81	12,150 18,200 18,837 20,683		34
Rutter, N.W. Dept. of Geology Univ. of Alberta	EMRC	Amino acid analysis of fossils from Old Crow, Yukon.	1979-80	4,000		34
Rutter, N.W. Dept. of Geology Univ. of Alberta	SSC/ASC EMRC	Amino acid age determination on wood and bone samples from the Arctic archipelago.	1980 1983	1,885 3,600	(B.93) (B.110)	34 34
Rutter, N.W. Dept. of Geology Univ. of Alberta	EMRC	Amino acid analysis of fossils from Northern Canada.	1980-81	4,000		34
Rutter, N.W. Dept. of Geology Univ. of Alberta	EMRC	Amino acid analysis of fossils from northern Canada.	1981-82	4,000		34
Rutter, N.W. Dept. of Geology Univ. of Alberta	NSERCC/ CRSNGC	Amino acid dating techniques and Quaternary history of parts of Alberta, British Columbia, Yukon and Northwest Territories.	1981-82 1982-83 1983-84	26,500 30,608 32,444		34
Rutter, N.W. Dept. of Geology Univ. of Alberta	SSC/ASC EMRC	Palynological determination of field samples from quaternary sediments, Peel Plateau, Northwest Territories.	1982	6,435	(B.106)	34
SCADA Limited London, Ont.	SSC/ASC DFE/MPE	Study of terrain types and random location of ground truthing sites along the Alaska Highway Gas Pipeline.	1978	1,950	(B.60)	34

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Schenk, P.E. et al. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Quaternary paleo-oceanography, eastern Canadian Continental Margin.	1981-82 1982-83	74,638 83,683	34*
Schroeder, J.M. Dep. de Géographie Univ. de Moncton	NRCC/CNRC	Cartographie géomorphologique et spéléogenèse de grottes du ler Canyon de la Nahanni Sud (TNO).	1974-75 1975-76 1976-77	4,900 5,590 5,733	34
Schroeder, J.M., Bouchard, M.A. et Occhietti, S. Dep. de Géographie Univ. du Québec à Montréal	NSERCC/ NRSNGC	Etude des paléosurfaces du Québec et des régions périphériques.	1982-83	25,000	34*
Schwarcz, H.P. Dept. of Geology McMaster Univ.	EMRC	Radiometric dating of fossil molluscs from raised Arctic beaches.	1979-80	9,000	34
Slaymaker, H.O. Dept. of Geography Univ. of British Columbia	NSERCC/ CRSNGC	Alpine and Arctic solute and sediment production, transport and yield.	1982-83 1983-84	13,000 13,780	34
St-Onge, D.A. Dép. de Géographie Univ. d'Ottawa	NSERCC/ CRSNGC	Géologie du Quaternaire, Centre-nord du District du Mackenzie.	1982-83 1983-84	11,000 11,660	34
St-Onge, D.A. Dép. de Géographie Univ. d'Ottawa	NSERCC/ CRSNGC	Le lac glaciaire Coppermine.	1981-82	7,900	34
St-Onge, D.A. Dept. of Geography Ottawa Univ.	EMRC	Mapping of unconsolidated deposits, Dismal Lakes and Coppermine Valleys, N.W.T.	1981-82	6,500	34
Stearn, C.W. Dept. of Geological Sciences McGill Univ.	EMRC	Paleoecology of Devonian carbonate formations of the Blue Fiord area, Ellesmere Island.	1979-80	4,000	34
Terasmae, J. Dept. of Geological Sciences Brock Univ.	INAC/AINC	Evaluation critic of palynology technique for the study of the evolution of Arctic vegetation and climate.	1974-75	5,000	34

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Terasmae, J. Dept. of Geological Sciences Brock Univ.	SSC/ASC DFE/MPE	Radio carbon dating of 13 samples of wood and peat and pollen analysis of 170 samples from four sections of the southern District of Keewatin.	1977	2,310	(B.57)	34
Terasmae, J. Dept. of Geological Sciences Brock Univ.	NRCC/CNRC	Quaternary paleoecology, geochronology, and climatic changes in eastern and northeastern Canada.	1975-76 1976-77 1977-78	14,625 15,000 16,260		34*
Terrain Analysis and Mapping Services Limited Stittsville, Ont.	SSC/ASC EMRC	Mapping of surficial geology and geomorphology for the southwest Yukon Territory.	1977	30,530	(B.52)	34
Terrain Analysis and Mapping Services Limited Stittsville, Ont.	SSC/ASC EMRC	Mapping of surficial geology and landforms of parts of Southwestern Yukon Territory and Northwestern British Columbia.	1979	37,781	(B.78)	34
Terrain Analysis and Mapping Services Limited Stittsville, Ont.	SSC/ASC EMRC	Preliminary air photo interpretation of surficial geology and landforms for Dezadeash and Tatsheshini River map sheets.	1979	7,852	(B.72)	34
Terrain Analysis and Mapping Services Limited Stittsville, Ont.	SSC/ASC EMRC	Production of surficial geology and landform maps for Aklavik, Delta, Stanton, Cape Dalhousie and Malloch Hill (1:250,000 scale maps).	1979	2,766	(B.72)	34
Thalassic Data Limited Vancouver, B.C.	SSC/ASC EC	Analysis and dating of Beaufort Sea surface sediment samples by the lead-210 method.	1976	4,800	(B.45)	34
Trenhaile, A.S. Dept. of Geography Univ. of Windsor	NRCC/CNRC NSERCC/ CRSNGC	1) Shore platforms in Newfoundland. 2) Shore platforms in the Canadian Mountains.	1975-76 1976-77 1977-78	1,950 2,000 2,168		34
Westgate, J.A. Dept. of Geology Univ. of Alberta	NRCC/CNRC	1) Quaternary geology of central and southern Alberta. 2) Quaternary tephrochronology (volcanic ash chronology) of Western Canada.	1974-75 1975-76	8,750 9,980		34

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Westgate, J.A. Dept. of Geology Univ. of Toronto	NRCC/CNRC	1) Quaternary tephrochronology of the Yukon Territory and adjacent areas of Alaska 2) Quaternary geology of southern and central Alberta.	1976-77 1977-78 1978-79	11,500 12,466 13,214		34
Westgate, J.A. Dept. of Geology Univ. of Toronto	NRCC/CNRC	Photomicroscope.	1977-78	19,666		34
Westgate, J.A. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	Quaternary Tephrochronology of western Canada and adjacent parts of Alaska.	1979-80 1980-81 1981-82	16,000 17,566 19,325		34
Westgate, J.A. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	Modular system for quantitative digital image analysis.	1981-82	18,229		34
Westgate, J.A. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	1) Late Cenozoic tephrochronology of Western Canada and Alaska 2) Reinterpretation of the genesis of the silty-clay tills along the Scarborough Bluff.	1982-83	22,000		34
Woodward-Clyde Consultants Victoria, B.C.	SSC/ASC EMRC	Conduct an evaluation of sediment dynamics in the southern Beaufort Sea.	1982	38,867	(B.109)	34

GLACIOLOGY / GLACIOLOGIE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctic Institute of North America (The) Montreal, Que.	SSC/ASC EC	A study and the preparation of a glacier inventory of the St. Elias Mountains.	1974	63,800	(B.15)	35
Arctic Institute of North America (The) Calgary, Alta.	SSC/ASC TC	Mount Logan ice core retrieval project.	1981	35,480	(B.98)	35
Arctic Institute of North America (The) Calgary, Alta.	SSC/ASC TC	Provide support services for a workshop on ice drilling.	1982	500	(B.110)	35
Charette, M. Port Moody, B.C.	SSC/ASC EC	Glaciological, hydrological and meteorological field work on glaciers in the coast mountain range.	1980	2,000	(B.90)	35
Charette, M. Port Moody, B.C.	SSC/ASC EC	Glaciological, hydrological and meteorological field work on glaciers in the coast mountain range.	1981	8,000	(B.99)	35
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	EC	Thermal study of a surging glacier.	1974-75 1975-76	7,800 10,000		35
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	SSC/ASC EC	Glacier inventory studies in Northern British Columbia and the Yukon Territories.	1976	28,290	(B.41)	35
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	EMRC	Surging glacier research.	1976-77	10,500		35

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	SSC/ASC DFE/MPE	Glacier inventory studies in the Yukon Territory.	1977 1978	33,000 25,000	(B.53) (B.64)	35
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	EC	Glacier beds: Their relationship to ice dynamics and erosion.	1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	11,000 12,500 8,000 10,000 12,000 7,800		35
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	NRCC/CNRC NSERCC/ CRSNGC	Glaciology: Field study, theory and instrumentation.	1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	17,150 25,000 18,179 18,815 27,500 31,763 55,725		35
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Glacier Survey equipment.	1981-82	34,322		35
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Recording system for airborne ice thickness sounder.	1977-78	33,505		35
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	SSC/ASC EMRC	Computer modelling of glacier flow and temperature, Agassiz Ice Cap, Ellesmere Island	1981	31,038	(B.101)	35
Clarke, G.K.C. Dept. of Geophysics and Astronomy Univ. of British Columbia	NSERCC/ CRSNGC	Glaciological field research.	1982-83	7,500		35

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Classen, D. Dept. of Physics Univ. of Victoria	SSC/ASC EC	Geophysical investigations of the Barnes Ice Cap, Baffin Island, N.W.T.	1975	24,365	(B.25)	35
Collins, D.N. Dept. of Geography Univ. of Manchester	SSC/ASC EC	Preparation of reports on hydro-chemical characteristics of runoff in glacierized mountain catchments.	1979	4,000	(B.75)	35
Eastman Oil Well Survey Company Limited Edmonton, Alta.	SSC/ASC EMRC	Inclinometer survey of two boreholes in the ice cap on Devon Island.	1976	8,156	(B.38)	35
Eastman Oil Well Survey Company Limited Edmonton, Alta.	SSC/ASC EMRC	Inclinometer survey of two boreholes in the Agassiz Ice Cap, Ellesmere Island.	1977	7,997	(B.52)	35
Fisher, D.A. Copenhagen, N. Denmark.	SSC/ASC EMRC	A time series analysis of some aspects of the Devon Island ice cap cores.	1976	25,600	(B.45)	35
Gerrie, P.W. Burnaby, B.C.	SSC/ASC EC	Glaciological, hydrological and meteorological field work on glaciers in the coast mountain range.	1980	4,000	(B.89)	35
International Symposium on Thermal Regime of Glaciers and Ice Sheets Simon Fraser Univ.	NRCC/CNRC	Conference Grants/Subventions pour conférences.	1975	3,000		35
Krouse, H.R. Dept. of Physics Univ of Calgary	SSC/ASC EC	Perform oxygen isotope analysis on water samples from ice cores of Mount Logan.	1983	7,500	(B.126)	35
MacDonald, J. New Westminister, B.C.	SSC/ASC EC	Glaciological, hydrological and meteorological field work on glaciers in the coast mountain range.	1981	6,500	(B.99)	35
Martin, R.W. Univ. of Calgary	EC	Determination of oxygen isotope for snow/ice samples from Mount Logan.	1980-81	4,500		35
Mathews, W.H. Dept. of Geology Univ. of British Columbia	EMRC	An experimental model of glacial abrasion.	1976-77	1,200		35

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Muller, F. Dept. of Geography McGill Univ.	NRCC/CNRC NSERCC/ CRSNGC	Glaciological research on Axel Heiberg Island (N.W.T.).	1975-76 1976-77 1977-78 1978-79 1979-80 1980-81	5,850 9,520 10,320 10,939 9,800 10,760		35
Nickling, W.G. Dept. of Geography Univ. of Guelph	NRCC/CNRC	Rates and mechanics of rock glacier flow in the icefield ranges, Yukon Territory.	1976-77 1977-78 1978-79	4,000 3,650 3,650		35
Orvig, R. Banff, Alta.	SSC/ASC EC	Conduct glaciological, hydrological and meteorological field work on glaciers in the coast mountain range.	1983	7,500	(B.122)	35
Post, P. North Vancouver, B.C.	SSC/ASC EC	Conduct glaciological, hydrological and meteorological field work on glaciers in the coast mountain range.	1981	2,600	(B.103)	35
Protter, N Whistler, B.C.	SSC/ASC EC	Conduct glaciological, hydrological and meteorological field work on glaciers in the coast mountain range.	1983	10,000	(B.122)	35
Richard Brancker Research Limited Ottawa, Ont.	SSC/ASC DFE/MPE	Design and drawings for an ice borehole logger.	1979	3,500	(B.72)	35
Richard Brancker Research Limited Ottawa, Ont.	SSC/ASC EC	Fabricate an ice hole logger, MK 1.	1979	9,919	(B.80)	35
Rogerson, R.J. Dept. of Geography Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Temperate glacier sedimentation.	1978-79 1979-80	4,900 7,000		35*
Rogerson, R.J. Dept. of Geography Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Cirque glaciers erosion and ice-marginal moraines.	1980-81	8,000		35*
Rogerson, R.J. Dept. of Geography Memorial Univ. of Newfoundland	EC	Baseline data for mass balance of glaciers.	1981-82	2,000		35*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Rogerson, R.J. Dept. of Geography Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Cirque glaciers in Northern Labrador.	1981-82 1982-83 1983-84	6,000 7,000 7,420		35*
Schmok, J.P. Vancouver, B.C.	SSC/ASC EC	Glaciological, hydrological and meteorological field work on glaciers in the Coast Mountain Range.	1979	6,000	(B.75)	35
Shaw, J. Dept. of Geography Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Process of deposition from turbidity currents in pro-glacial lakes.	1974-75 1975-76 1976-77 1977-78	6,650 10,725 11,000 11,924		35
Shaw, J.. Dept. of Geography Univ. of Alberta	NRCC/CNRC	Gould data logger with accessories.	1975-76	7,197		35
Shaw, J. Dept. of Geography Queen's Univ. at Kingston	NSERCC/ CRSNGC	Sedimentation in lakes, rivers and by glaciers.	1978-79 1979-80 1980-81	12,800 13,248 15,546		35
Shaw, J Dept. of Geography Queen's Univ. at Kingston	NSERCC/ CRSNGC	Sedimentation by rivers and glaciers.	1981-82 1982-83 1983-84	16,900 19,520 20,691		35
Shoemaker, E.M. Dept. of Mathematics Simon Fraser Univ.	NRCC/CNRC	Glaciology.	1975-76	6,435		35
Shoemaker, E.M. Dept. of Mathematics Simon Fraser Univ.	NRCC/CNRC	Glacier surge studies.	1976-77	4,000		35
Shoemaker, E.M. Dept. of Mathematics Simon Fraser Univ.	NRCC/CNRC	Studies in geophysics and glaciology.	1977-78	3,650		35
Taylor, B. Ottawa, Ont.	SSC/ASC EMRC	Analyse the relationship of Devon Island ice cap mass balance and core studies to the synoptic climate of the area.	1975	19,000	(B.30)	35

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Thompson, A.R. Arctic Institute of North America Univ. of Calgary	EC	To provide space and support services for a workshop on ice drilling.	1982-83	500		35
Wickinson, B. Dept. of Engineering Univ. of Calgary	EC	Machine shop work required to assemble a thermal ice core unit.	1981-82	4,000		35
Williams, A. Arctic Institute of North America Univ. of Calgary	SSC/ASC EC	Mount Logan ice core collection.	1980	32,584	(B.87)	35

GOVERNMENT (ORGANIZATIONS, POLICIES ...) / GOUVERNEMENT (ORGANISATIONS, POLITIQUES ...)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Archibald, P. Victoria, B.C.	SSC/ASC EC	Preparation of draft reports for Department of Environment Task Force concerning Environment Canada's activities in the Yukon Territory.	1981	2,700	(B.96)	36
Homenuck, P. Dept. of Environmental Studies York Univ.	INAC/AINC	1981-82 native /Canadian relations.	1981-82	75,000		36
Lucas, A.R. Dept. of Law Univ. of Calgary	LRCC/CRDC	Rendering a report to the Commission on "Administration of the Northern Pipeline".	1981-82	3,000		36
Manitoba Metis Federation Inc. Winnipeg, Man.	SSC/ASC ITC/IC	Canada-Manitoba Northern Development Agreement. Evaluation and consultation services.	1983	61,800	(B.125)	36
Ponting, J.R. Dept. of Sociology Univ. of Calgary	INAC/AINC	Future directions for socio-political research on Indian affairs.	1980-81	13,500		36
Tanner, A. ed.	SSHRCC/ CRSHC	Aid to Scholarly Publication: The Politics of Indianness. St. John's, Newfoundland: Institute of Social and Economic Research, Memorial Univ., 1983.	1983-84	-		36
Thompson, A.R. Westwater Research Centre Univ. of British Columbia	EC	To examine the Saskatchewan/Nelson Rivers Basin Agreement and the Prairie Provinces Water Board to assess the appropriateness of this model for the Mackenzie River Basin.	1982-83	12,200		36
Watts, R. Dept. of Political Studies Queen's Univ. at Kingston	INAC/AINC	To assist in the publication of reports on political affairs in the North.	1975-76	2,000		36

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Weaver, S.M. Univ. of Waterloo	SSHRCC/ CRSHC	Native pressure groups and government policy: Canada and Australia, 1979-1980.	1979-80 1980-81	10,821 900		36
Weaver, S.M. Univ. of Waterloo	SSHRCC/ CRSHC	The emergencies of 'Native' policy in Canada in the 1970's.	1981-82	7,393		36
West Public Relations Limited Edmonton, Alta.	SSC/ASC EC	Development of information for activities related to "North of Sixty" for Environment Canada, Western and Northern region.	1976	31,982	(B.40)	36

HISTORY / HISTOIRE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Aarons, A. Thornhill, Ont.	CC/CAC	Book on 19th Century art and exploration of the Canadian Arctic.	1982-83	8,818	37
Arthur, E.V. Toronto, Ont.	CC/CAC	For a photographic study of burial markers in the Maritimes and in northern British Columbia and the Yukon.	1975-76	2,000	37
Bantroli, T. Dept. of Hispanic Studies Univ. of British Columbia	INAC/AINC	Historical research on European activities in the Nootka Sound Area.	1974-75	2,500	37
Birley, S. Taylor, B.C.	CC/CAC	Exhibition of panels on history of transportation in the north.	1981-82	3,420	37
Brousseau, T. Terrace, B.C.	CC/CAC	History: Northern settlers.	1976-77	8,000	37
Buck, J.R. Regina, Sask.	CC/CAC	To continue historical research for a book on the men who ran the mails in the Northwest Territories.	1975-76	1,500	37
Campbell, M. Toronto, Ont.	CC/CAC	Research on the North West Company.	1981-82	6,480	37
Choque, C. Churchill, Man.	CC/CAC	For a study of the history and role of Catholic missions in the Hudson Bay area during the period 1912 to 1974.	1975-76	5,000	37*
Cook, G.L. Simon Fraser Univ.	CC/CAC	History: History of Frontier College, founded in 1889 to educate and assist people working and living in Canada's frontier lands.	1976-77	10,000	37
Council for Yukon Indians Whitehorse	CC/CAC	Complete historical book about Yukon Indians based on Yukon Indian testimonies.	1982-83	9,300	37

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Cox, B.A. Carleton Univ.	SSHRCC/ CRSHC	The trade in country foods at Fort Churchill, 1717-1760.	1979-80	2,998		37
Davignon, E. Johnsons's Crossing, Y.T.	CC/CAC	Biography of recipient's family and their connection with the Alaska Highway based on personal documents including her newspaper columns, and archival material.	1983-84	8,847		37
Desirée-Tesar, E. Yellowknife, N.W.T.	CC/CAC	Research for series of children's books on the contribution of northern natives as guides, interpreters, hunters, etc., during various explorations between 1819 and 1880.	1983-84	4,730		37
Francis, D. and Morantz, T.	SSHRCC/ CRSHC	Aid to Scholarly Publication/Aide à l'édition savante: Partners Partners in Furs: A History of the Fur Trade in Eastern James Bay, 1600-1870. Montreal: McGill-Queen's Univ. Press, 1983.	1983-84	-		37'
Gates, M. and Hartimier, R. Dawson City, Yukon	CC/CAC	Research in to history of Klondike gold fields, including photographs and interviews.	1983-84	2,500		37
Hochbaum, H.A. Delta, B.C.	CC/CAC	To prepare for publication a manuscript, with illustrations, on Canadian Arctic history, natural history and ecology.	1975-76	10,000		37
Hodgson, M.J.D. Univ. of British Columbia	CC/CAC	English History and Geography: A biographical study of British naval captain and explorer Edward Belcher (1799-1877).	1975-76	13,044		37
Inummarilirjiit - Inuit Cultural Institute Nunatsiaq, N.W.T.	CC/CAC	Transcription of tapes of Keewatin Elders Conference.	1982-83	5,000		37
Inummarilirjiit - Inuit Cultural Institute Nunatsiaq, N.W.T.	CC/CAC	Writing of autobiographical stories by five Inuit elders.	1982-83	10,000		37
Ipellie, A. Ottawa, Ont.	CC/CAC	Autobiographical illustrated book about childhood in Frobisher Bay.	1982-83	4,800		37
J.D. Mollard and Associates Limited Regina, Sask.	SSC/ASC EC	Preparation of a report on the historic development of the Slave River Delta.	1980	20,000	(B.92)	37
Johns Penikett, L.M. Whitehorse, Yukon	CC/CAC	Book on history and culture of upper Tanana Indians.	1982-83	10,604		37

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Johnson, J.P. Dept. of Geography Carleton Univ.	CC/CAC	Historic sites of Canada's Arctic Islands.	1974-75	4,132	37
Jorah, S. Baker Lake, N.W.T.	CC/CAC	Produce videotape based on oral histories from Baker Lake elders.	1983-84	10,000	37
Kupp, J. Dept. of History Univ. of Victoria	CC/CAC	Dutch documents relating to the early North American fur trade and cod fisheries and Labrador and the Strait of Davis.	1974-75 1975-76	2,020 3,500	37*
Lingard, A. Vancouver, B.C.	CC/CAC	History of survival of a family from northern Saskatchewan and the Northwest Territories.	1982-83	5,000	37
Mackenzie, E. Rae-Edzo, N.W.T.	CC/CAC	Bilingual biographical book of Dogrib people of the northern Great Slave Lake region.	1982-83	12,764	37
Mayes, R.G. Trent Univ.	SSHRCC/ CRSHC	The role of Anglican missionaries in the Canadian Eastern Arctic, 1894-ca. 1950.	1980-81	1,600	37
McIntire, T. Institute of Christian Studies	SSHRCC/ CRSHC	Indian views of history: traditional and modern.	1980-81	6,105	37
Moodie, W. Univ. of Manitoba	SSHRCC/ CRSHC	Wilderness mosaic: the land, the people and the fur trade of the Northwestern Interior of Canada to 1870.	1982-83	21,498	37
Moodie, W. Univ. of Manitoba	SSHRCC/ CRSHC	Wilderness mosaic: the land, the people and the fur trade of the Northwestern Interior of Canada to 1870.	1983-84	44,283	37
Morritt, H. Point Edward, Ont.	CC/CAC	Book about historical events on Alaska Highway from 1946-1950.	1981-82	6,301	37
Nanaimo Historical Society Symposium Nanaimo, B.C.	CC/CAC	Symposium on Hudson's Bay Company.	1981-82	1,000	37
Nanogak, A. Holman, N.W.T.	CC/CAC	Recording and illustration of Inuit stories.	1982-83	8,800	37
Neatby, L.H. Dept. of History Univ. of Saskatchewan	CC/CAC	Scholarly edition of Hantzch's Life with Eskimos.	1974-75	1,556	37

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Ray, A.J. Dept. of Geography York Univ.	CC/CAC	An analysis of price and profit relationships of the Hudson's Bay Company in North America and Britain before 1763.	1976-77	9,983	37
Ray, A.J. Dept. of Geography York Univ.	CC/CAC	History, Geography and Anthropology Operations of the Hudson's Bay Company in North America and in the markets of Europe.	1977-78	29,453	37
Ross, W.G. Dept. of Geography Bishop's Univ.	CC/CAC	Whaling and Eskimos in the Eastern Arctic 1820-1920.	1976-77	8,274	37
Royal Society of Canada (The)	SSHRCC/ CRSHC	Symposium: A century of Canada's Arctic Islands 1880-1980/Un siècle des îles arctiques du Canada 1880-1980.	1980-81	7,500	37
Ruggles, R. Queen's Univ. at Kingston	SSHRCC/ CRSHC	History of exploration, surveying and cartography of Hudson's Bay Company, 1670-1870.	1981-82	6,762	37
Sawatsky, D.E. Whitehorse, Y.T.	CC/CAC	Anthology of stories of the North.	1976-77	5,000	37
Smith, G. Inuvik, N.W.T.	CC/CAC	Illustrated history of the Inuvialuit.	1983-84	3,000	37
Stewart, S. Yellowknife, N.W.T.	CC/CAC	Book based on taped conversations of Dene elders made for film "We Remember".	1982-83	2,000	37
Stuart, B. Whitehorse, Yukon	CC/CAC	Biography of Johnny Johns, Yukon explorer, guide, and native leader.	1983-84	8,900	37
Trudel, F. Univ. Laval	SSHRCC/ CRSHC	Histoire des Inuit du Québec nordique (1700-1950).	1982-83	28,292	37*
Valpy, B. Yellowknife, N.W.T.	CC/CAC	Script for a play based on life of John Hornby, who died of starvation in the Arctic during winter of 1926-27.	1983-84	5,300	37
Waddington, C. Haines Highway, Y.T.	CC/CAC	To produce two recorded programs of native music and conversation giving a historical account of the Dalton Trail, the route to the Klondike goldfields.	1974-75	2,900	37
Wanders, W.C. Univ. of Alberta	SSHRCC/ CRSHC	1st International Conference on the discovery and history of the Boreal Polar Regions (Rome).	1981-82	-	37
Warner, I.D. Whitehorse	CC/CAC	To research the history of the Yukon roads from early Indian and trading trails to the major highways of today.	1974-75	5,000	37

HYDROELECTRICITY / HYDROÉLECTRICITÉ

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Acres Consulting Services Limited Vancouver, B.C.	SSC/ASC INAC/AINC	Integration study on Aishihik/Whitehorse Rapids hydroelectric development.	1974	17,847	(B.20)	38
Crippen Engineering Limited North Vancouver, B.C.	SSC/ASC EMRC	Review of the design and the revision of cost estimates of Yukon-Taiya and Yukon-Taku storage and power schemes originally prepared in 1966.	1975	69,776	(B.25)	38
Gill, D. Dept. of Geography Univ. of Alberta	EC	Potential environmental modification of the Slave River Delta by upstream river developments.	1977-78 1978-79	9,500 13,300		38
Kershaw, K.A., Rouse W.R. and Woo, M.K. Dept. of Physics Univ. of Saskatchewan and McMaster Univ.	NSERCC/ CRSNGC	The potential impacts of hydroelectric development on the hydroclimate and coastal ecology of James Bay.	1983-84	139,000		38*
R&L Walker & Partners Limited Edmonton, Alta.	SSC/ASC EMRC	Comparison of the results of Slave River hydro development studies.	1983	30,400	(B.127)	38
Underwood McLellan (1977) Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Conduct a power study in the Yukon and Northwest Territories.	1978	66,478	(B.59)	38
Underwood McLellan (1977) Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Confirmation of the hydro power potential of Northwest Territory sites.	1979	80,600	(B.76)	38
Underwood McLellan Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Reconnaissance and inspection of potential hydroelectric power sites and storage dam sites in the Northwest Territories.	1981	120,000	(B.101)	38

HYDROLOGY, HYDROGRAPHY, HYDRAULICS, PHYSICO-CHEMICAL LIMNOLOGY / HYDROLOGIE, HYDROGRAPHIE, HYDRAULIQUE, LIMNOLOGIE PHYSICO-CHIMIQUE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Adams, W.P. Dept. of Geography Trent Univ.	EC	Snow and ice cover of lakes with reference to oxygen depletion.	1979-80	10,000		39
Adams, W.P. Dept. of Geography Trent Univ.	NSERCC/ CRSNGC	Biologic and hydrologic roles of lake snow and ice.	1983-84	23,850		39
Adams, W.P. and Lasenby, D.C. Dept. of Geography Trent Univ.	NSERCC/ CRSNGC	Roles of lake ice and snow with particular reference to oxygen regime.	1980-81 1981-82 1982-83	12,000 13,200 17,246		39
Adams, W.P. and Lasenby, D.C. Dept. of Geography Trent. Univ.	NSERCC/ CRSNGC	Strip chart recorder with two modules.	1980-81	5,183		39
Allan, C. Winnipeg, Man.	SSC/ASC DFO/MPO	Hydrological analysis water data collected at the Saqvaqjuac, Northwest Territories, experimental area.	1981	3,600	(B.105)	39
Allan, C. Winnipeg, Man.	SSC/ASC DFO/MPO	Produce bathymetric maps of Saqvaqjuac and Hawk inlets.	1982	1,500	(B.114)	39
Beak Consultants Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Sampling and chemical analysis of various waters in B.C. and the Yukon.	1977	45,364	(B.49)	39
Bergmann, M.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Study of nitrogen-fixation rates of periphyton in Saqvaqjuac lakes.	1982	9,600	(B.111)	39
Bergmann, M.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Development of a circulation model for small lakes at Saqvaqjuac, Northwest Territories.	1982	9,605	(B.116)	39

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Can Test Limited Vancouver, B.C.	SSC/ASC EC	Sampling and chemical analysis of various waters in British Columbia and the Yukon.	1975	36,587	(B.28)	39
Charles Howard Associates Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Preliminary environmental quality assessment of Bathurst Inlet Watersheds, Northwest Territories.	1976	23,000	(B.43)	39
Chemex Labs Limited North Vancouver, B.C.	SSC/ASC EC	Sampling and chemical analysis of various waters in British Columbia and the Yukon.	1974	31,286	(B.21)	39
Coast Pilot Limited Sidney, B.C.	SSC/ASC DFO/MPO	Reduction and analysis of hydrographic source data and preparation of a side scan mosaic and a contoured field sheet for the Beaufort Sea PLF test area.	1981	4,682	(B.97)	39
Cogley, J.G. Dept. of Geography Trent Univ.	NSERCC/ CRSNGC	Water and energy balance studies of arctic catchments.	1978-79	4,500		39
Cogley, J.G. Dept. of Geography Trent Univ.	NRCC/CNRC NSERCC/ CRSNGC	Water and energy balance studies of arctic catchments.	1977-78 1978-79	7,650 4,500		39
CPRO Computing Enterprises Inc. Victoria, B.C.	SSC/ASC DFO/MPO	Calculation of extent of inundation at Tuktoyaktuk due to storm surges.	1983	5,400	(B.123)	39
Ford, D.C. Dept. of Geography McMaster University	EC	Hydrology of canyon basins in the Mackenzie Mountains, N.W.T.	1975-76 1976-77 1977-78	7,300 9,000 12,500		39
Horler, A. Whitehorse, Yukon	SSC/ASC DFO/MPO	Bathymetric surveys of selected lakes in the Yukon Territories.	1981	1,800	(B.103)	39
International Environment Consultants Richmond, B.C.	SSC/ASC EC	Reconnaissance surveys in the Yukon for the location of gauging stations for gathering hydrometric information.	1980	8,336	(B.91)	39
James, W. Dept. of Civil Engineering and Engineering Mechanics McMaster Univ.	NRCC/CNRC	Arctic flood and water supply hydrology.	1974-75	8,500		39
Johnson, P.G. Dept. of Geography Univ. of Ottawa	SSC/ASC EC	Examination of the effects of the composition and structure of unconsolidated rock deposits on the hydrological balance and regime of an alpine area.	1979	7,930	(B.75)	39

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Johnson, P.G. Dept. of Geography Univ. of Ottawa	SSC/ASC EC	Hydrology and hydrochemistry of unconsolidated rock masses in alpine environments.	1980	14,076	(B.87)	39
Kenton, B.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Analyze water samples at a field laboratory at Tuktoyaktuk, Northwest Territories.	1982	8,100	(B.110)	39
Lasenby, D.C. Dept. of Biology Trent Univ.	EC	Investigation of oxygen depletion in freshwater lakes in winter with special reference to the role of the snow and ice cover.	1977-78	8,000		39
Llamas, J. Dep. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Hydrologie des bassins nordiques.	1979-80 1980-81 1981-82 1982-83 1983-84	12,500 13,725 15,098 18,500 19,610		39*
Marshall Macklin Monaghan Limited Don Mills, Ont.	SSC/ASC EMRC	Collection and sampling of organic lake sediments and water surveys from lakes in the provinces of Ontario, Saskatchewan and Northwest Territories.	1978	322,330	(B.64)	39
Marshall Macklin Monaghan Limited Don Mills, Ont.	SSC/ASC EMRC	Geochemical stream sediment and water sampling survey, Nahanni Map-area (105I), Yukon Territory.	1981	115,375	(B.99)	39
McCann, S.B. Dept. of Geography McMaster Univ.	EC	Hydrological investigation, South Central Ellesmere Island, 1974.	1974-75 1975-76	21,943 16,452		39
Michel, F.A. Dept. of Geology Carleton Univ.	NSERCC/ CRSNGC	Isotope investigations of northern groundwaters, permafrost and related phenomena.	1983-84	16,960		39
Odysseas Ocean Sciences Limited Victoria, B.C.	SSC/ASC EC	Computer analysis and development of programs for limnological studies in Kootenay Lake and the Headwater Lakes of the Yukon River Basin.	1982	4,125	(B.117)	39
Payre, G.M.J. Dep. de Génie chimique Univ. de Sherbrooke	NSERCC/ CRSNGC	Modelage d'un réservoir subarctique: identification des paramètres.	1980-81 1981-82 1982-83	7,500 8,250 9,529		39*
Peters, R.H. Dept. of Biology McGill Univ.	SSC/ASC INAC/AINC	Continuation study of the prediction of effects of increased nutrient loading on sub-Arctic lakes.	1983	38,065	(B.124)	39*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
R.M. Hardy and Associates Limited Calgary, Alta.	SSC/ASC EC	Computer simulation of groundwater flow regime and simultaneous heat transfer in an Arctic (permafrost) streambed environment.	1975	12,500	(B.32)	39
Rigler, F.H. Dept. of Zoology Univ. of Toronto	EC	Development of an empirical model to predict phosphorus loading in shield lakes.	1974-75 1975-76 1976-77	5,000 8,300 7,000		39*
Rigler, F.H. Dept. of Biology McGill Univ.	INAC/AINC	Prediction effect of increased phosphorous loading on sub-arctic lakes.	1976-77	32,523		39*
Rigler, F.H. Dept. of Biology McGill Univ. Montreal, Que.	SSC/ASC INAC/AINC	Prediction of effect of increased phosphorus loading on sub-Arctic lakes.	1977	78,161	(B.51)	39*
Rigler, F.H. Dept. of Biology McGill Univ. Montreal, Que.	SSC/ASC INAC/AINC	Study to predict the effect of increased phosphorus loading on sub-Arctic lakes.	1978	89,922	(B.62)	39*
Rigler, F.H. Dept. of Biology McGill Univ.	SSC/ASC INAC/AINC	Analyse the prediction of the effect of increased phosphorous loading on sub-Arctic lakes.	1979	104,724	(B.73)	39*
Rigler, F.H. Dept. of Biology McGill Univ.	SSC/ASC INAC/AINC	Study the prediction of the effect of increased phosphorous loading on sub-Arctic lakes.	1980 1981	122,344 120,000	(B.85) (B.98)	39*
Rigler, F.H. Dept. of Biology McGill Univ.	INAC/AINC	Prediction of effect of increased phosphorus loading on sub-arctic lakes.	1982	89,466	(B.111)	39*
Robitaille, B. Dép. d'Hydrologie Univ. Laval	INAC/AINC	Description, analyse et cartographie, caractéristiques hydrologiques d'une partie du Parc Auyuittuq.	1977-78	77,000		39
Rouse, W.R. Dept. of Geography McMaster Univ.	NRCC/CNRC	Radiation, heat and water budgets of subarctic surfaces.	1974-75	6,700		39

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Rouse, W.R. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Energy and water balance studies in the low and high Arctic.	1981-82 1982-83 1983-84	20,000 23,100 24,486		39
Rouse, W.R. Dept. of Geography Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Climatic impact of Hudson Bay on coastal tundra-energy and water balance studies in the low Arctic.	1983-84	5,300		39*
Rouse, W.R. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Energy and water balance studies in the low Arctic. Climatic impact of Hudson Bay ice on coastal tundra.	1982-83	6,500		39*
Rouse, W.R. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Digital recorder, temperature integrator, wind sensor translator & associated accessories.	1982-83	22,865		39
Schreier, H.W. Vancouver, B.C.	SSC/ASC DFE/MPE	Analysis of water quality conditions of two selected streams along the Alcan pipeline route in the Yukon Territory.	1978	10,550	(B.63)	39
Schreier, H.W. Vancouver, B.C.	SSC/ASC DFE/MPE	Identifying the water quality conditions of two selected streams along the Alcan pipeline route in the Yukon Territory.	1977	5,300	(B.57)	39
Shawinigan Engineering Company Limited (The) Montreal, Que.	SSC/ASC INAC/AINC	Studies of relationships between hydrological, hydromorphological and basin characteristics in the North.	1976	44,106	(B.38)	39
Sklash, M.G. Dept. of Geology Univ. of Windsor	NSERCC/ CRSNGC	Investigation of the role of groundwater in storm runoff.	1982-83	14,000		39
Sklash, M.G. Dept. of Geology Univ. of Windsor	NSERCC/ CRSNGC	Investigation of the role of groundwater in storm and snowmelt runoff.	1983-84	8,480		39
Smith, V.H. Dept. of Biology McGill Univ.	INAC/AINC	Prediction of the effects of increased phosphorous loading in subarctic lakes.	1983-84	38,000		39*
St-Onge, D.A. Dept. of Geography Univ. of Ottawa	EMRC	Stratigraphy and sedimentology, Glacial Lake Coppermine.	1980-81	5,000		39

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Strilaeff, P.W. North Vancouver, B.C.	SSC/ASC DFE/MPE	Examination of small stream hydrology, water quality, river hydraulics and sedimentation along the Alaska Highway pipeline.	1978	29,500	(B.63)	39
Translocase Industries Limited Ruskin, B.C.	SSC/ASC DFE/MPE	Study of water quality conditions of two selected streams along the Alcan pipeline route in the Yukon Territory.	1978 1978	7,700 13,700	(B.58) (B.63)	39
Underwood McLellan Limited Vancouver, B.C.	SSC/ASC EC	Study to assess flood risks along the rivers of the Yukon River Basin.	1983	25,000	(B.125)	39
Underwood McLellan and Associates Limited Winnipeg, Man.	SSC/ASC DFE/MPE	Preparation of a flood risk map for the Hay River, NWT.	1977	54,571	(B.49)	39
Unies Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Study of hydrologic phenomena in the Yukon Territory.	1974	20,000	(B.19)	39
Univ. Laval Dep. de Foresterie et de Géodésie	INAC/AINC	Analyse & cartographie des caractéristiques hydrologigues d'une partie du parc national Auyuittuq.	1976-77	77,000		39
Verschuren, J.P. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC INAC/AINC	Development of a predictive model for flooding in communities near the Ross River and the Stuart River, Yukon.	1975	7,000	(B.27)	39
Verschuren, J.P. Dept. of Civil Engineering Univ. of Alberta	INAC/AINC	Flood prediction Ross River and Stuart River - Yukon.	1976-77	7,000		39
Whiteley, H.R. School of Engineering Univ. of Guelph	NSERCC/ CRSNGC	Development and testing of a simulation model for snowmelt-period streamflow on small watersheds.	1980-81 1981-82 1982-83	9,000 9,900 11,435		39
Whiteley, H.R. School of Engineering Univ. of Guelph	NSERCC/ CRSNGC	Streamflow-generation modeling under discontinuous snowcover conditions.	1983-84	13,780		39

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Whittington, M. Dept. of Political Sciences Carleton Univ.	INAC/AINC	International Seminar on Wild Rivers, Jasper, Alberta.	1978-79	1,200	39
Woo, M.K. Dept. of Geography McMaster Univ.	NRCC/CNRC	1) Hydrologic modelling of a swamp. 2) Active layer hydrology and hydrology of a small Arctic lake.	1976-77	5,116	39
Woo, M.K. Dept. of Geography McMaster Univ.	NRCC/CNRC	1) Hydrology of nival-regime basins in the high Arctic 2) Impact of Hydro powerline installation across a natural swamp in southern Ontario.	1977-78	8,650	39
Woo, M.K. Dept. of Geography McMaster Univ.	EC	Hydrology of nival-regime basins in the vicinity of Resolute, Cornwallis Island, N.W.T.	1977-78 1978-79 1979-80	8,500 8,000 12,000	39
Woo, M.K. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Hydrology of nival-regime basins in the high Arctic.	1978-79 1979-80 1980-81	10,600 10,971 12,046	39
Woo, M.K. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Snow and permafrost hydrology in a High Arctic environment.	1981-82 1982-83 1983-84	15,000 17,325 18,365	39
Woo, M.K. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Scientific metrologger.	1981-82	10,320	39
Woo, M.K. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Wetland hydrology in a permafrost environment.	1983-84	6,360	39

ICE, ICEBERGS, ICE SCOURS / GLACE, ICEBERGS, AFFOUILLEMENTS GLACIELS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Acres Consulting Services Limited Niagara Falls, Ont.	SSC/ASC TC	Ice control for Arctic ports and harbours.	1982	79,000	(B.108)	40
Addison, J.R. Dept. of Physics McGill Univ.	NRCC/CNRC	Electrical properties of artificial sea ice at microwave frequencies.	1976-77 1977-78	3,000 4,150		40
Allen, J.H. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	1) Mechanics of iceberg grounding. 2) In situ testing of marine sediment by impact cone penetrometer.	1974-75	8,000		40
Allen, J.H. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	1) Mechanics of iceberg grounding. 2) In situ testing of marine sediment by impact cone penetrometer. 3) Sediment movement on grand banks.	1975-76	7,800		40
Arctec Canada Limited Kanata, Ont.	SSC/ASC DFE/MPE	Study of ice conditions in Barrow Strait and Viscount Melville Sound during the spring of 1978.	1978	245,000	(B.60)	40
Arctec Canada Limited Kanata, Ont.	SSC/ASC NRCC/CNRC	Model study of dynamic ice forces on an inclined plane.	1978	22,154	(B.69)	40
Arctec Canada Limited Kanata, Ont.	SSC/ASC EMRC	Scale testing of ice basin design.	1980	95,276	(B.89)	40
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Semi-empirical ice models based on full scale data.	1981	64,020	(B.104)	40
Arctec Canada Limitee Montreal, Que.	SSC/ASC EMRC	Fourniture de matériel et de services operationnels dans le cadre d'une étude sur le "raclage" des fonds par la glace dans la partie méridionale de la mer de Beaufort.	1974	76,170	(B.16)	40

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctec Canada Limitée Montréal, Qué.	SSC/ASC EMRC	Provision of equipment and operational services to support the studies of "Bottom Scour" by sea ice in the southern Beaufort Sea.	1974	76,170	(B.17)	40
Arctic Research Establishment Pond Inlet, N.W.T.	SSC/ASC DFO/MPO	Design, assembly and installation of a portable ice-physics laboratory for use in the Canadian Arctic.	1981	45,669	(B.95)	40
Arctic Research Establishment Pond Inlet, N.W.T.	SSC/ASC DFO/MPO	Documentation and instrumentation for the portable sea-ice laboratory.	1981	46,507	(B.96)	40
Arctic Research Establishment Pond Inlet, N.W.T.	SSC/ASC EMRC	Sea ice data collection and provision of maintenance schedules and operational procedures - Mould Bay 1981.	1981	22,352	(B.100)	40
Arctic Research Establishment Pond Inlet, N.W.T.	SSC/ASC DFO/MPO	Support for the sea-ice laboratory.	1981	2,500	(B.105)	40
Arctic Research Establishment Pond Inlet, N.W.T.	SSC/ASC DFO/MPO	Support to the ice physics laboratory.	1982	1,202	(B.106)	40
Arctic Research Establishment Pond Inlet, N.W.T.	SSC/ASC NRCC/CNRC	North Baffin Sea ice studies.	1982	34,171	(B.108)	40
Arctic Research Establishment Pond Inlet, NWT	SSC/ASC DFO/MPO	Data acquisition to study large scale deformation of the sea-ice surface and variations of first year sea-ice from freeze up to break up - fiscal year 1982/83.	1982	336,886	(B.113)	40
Arctic Research Establishment St. Catharines, Ont.	SSC/ASC NRCC/CNRC	Multi-year ice flow temperature measurements.	1982	8,844	(B.120)	40
Arctic Sciences Limited Saanichton, B.C.	SSC/ASC DFE/MPE	Study of ice and water movements in Lancaster Sound and vicinity.	1977	80,109	(B.52)	40
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC NDD/MDN	Computation of winds, ice motion and wind waves in Barrow Strait and vicinity	1977	29,490	(B.52)	40

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC NDD/MDN	Computation of winds, ice motions and wind waves in the vicinity of Barrow Strait - Phase II.	1978	18,210	(B.69)	40
Atmospheric Dynamics Corporation Victoria, B.C.	SSC/ASC EC	Study on the prediction of sea-ice by modification of selected components of the sea-ice thermodynamic prediction model.	1981	125,000	(B.104)	40
Benedict, C.P. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NDD/MDN DRB/CRD	Iceberg cross-section echo.	1974-75	10,000		40*
Benedict, C.P. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	Iceberg cross-section echo.	1974-75 1975-76 1976-77 1977-78 1978-79	5,500 6,275 6,000 6,504 6,894		40*
Benedict, C.P. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	Photometric equipment.	1974-75	6,982		40*
Bugden, G. Dartmouth, N.S.	SSC/ASC EC	Study on sea-ice distribution and sea-ice-air interaction.	1976	350	(B.43)	40
Canadian Marine Drilling Limited Calgary, Alta.	SSC/ASC TC	Feasibility study for the REMSCAN Ice Formation System.	1983	203,859	(B.124)	40
Canarctic Shipping Company Limited Ottawa, Ont.	SSC/ASC TC	Ice regime studies.	1983	125,816	(B.126)	40
Canpolar Consultants Limited Toronto, Ont.	SSC/ASC DFO/MPO	Review of floating ice thickness measurement capability, technologies and opportunities.	1983	18,786	(B.127)	40
Carter, D. Ste-Foy, Que.	SSC/ASC TC	Résistance theorique d'un champ de glace.	1981	64,400	(B.103)	40

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Caskill, H.S. and Lopez, R.J. Dept. of Mathematics and Statistics Memorial Univ. of Newfoundland	SSC/ASC EC	Development of a time dependent model of the air-ice-ocean interaction for use as part of the Atmospheric Environment Service's regional scale ice model.	1980	35,000	(B.88)	40
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC DFE/MPE	Preliminary study for the evaluation of potential sea-ice thickness measuring technqiues - Stage 1.	1977	7,500	(B.57)	40
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC DFE/MPE	Determination of iceberg grounding facts from analysis of drill rig observations.	1981	6,057	(B.97)	40*
Chari, T.R. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	Model studies of ocean bottom scouring by icebergs.	1976-77 1977-78 1978-79	7,000 7,588 8,043		40*
Chari, T.R. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	1) Model studies of iceberg scour 2) Geotechnical properties of surficial ocean sediments. 3) In-situ penetrometer.	1979-80 1980-81 1981-82	12,000 13,176 14,494		40*
Chari, T.R. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	1) Iceberg scour studies 2) Sampling, laboratory testing and in-situ testing of marine soils 3) Ultimate capacity of laterally loaded offshore piles and pile groups.	1982-83 1983-84	20,000 21,200		40*
Chari, T.R., Dempster, R.T. and Wilson, N.W. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	A comprehensive study of iceberg drift, scouring and decay.	1979-80 1980-81 1981-82	50,000 65,880 73,380		40*
Chee, S.P. Dept. of Civil Engineering Univ. of Windsor	NRCC/CNRC	River mechanics and local scour.	1974-75	6,000		40

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Chee, S.P. Dept. of Civil Engineering Univ. of Windsor	NSERCC/ CRSNGC	Hydraulics of ice-covered channels.	1981-82 1982-83 1983-84	15,000 17,325 18,365		40
Clark, C, Dept. of Geophysics Univ. of British Columbia	SSC/ASC NDD/MDN	Grid measurement of ice thickness.	1981	10,090	(B.101)	40
Cold Regions Remote Sensing Stittsville, Ont.	SSC/ASC EMRC	Interpretation and documentation of sea ice data.	1981	31,750	(B.99)	40
Cold Regions Remote Sensing Stittsville, Ont.	SSC/ASC EMRC	Sea-ice data interpretation and specialized drafting services.	1983	22,956	(B.123)	40
Contech E.T.C. Limited Ottawa, Ont.	SSC/ASC PWC/TPC	Project icebox studies for winter 1980/81 - Phase IV.	1981	27,900	(B.94)	40
Davar, K.S. Dept. of Civil Engineering Univ. of New Brunswick	NRCC/CNRC	1) Differential and integral hydrological budgeting for North Nashwaaksis representative basin, New Brunswick. 2) Flow resistance in ice covered streams-a laboratory investigation of an important problem for Canadian environment.	1974-75	8,300		40
Davar, K.S. Dept. of Civil Engineering Univ. of New Brunswick	NRCC/CNRC	1) Resistance and dispersion mechanics of flow under ice cover on streams 2) Development of an integrated hydrological model for the north Nashwaaksis research basin, N.B.	1975-76	5,850		40
Davar, K.S. Dept. of Civil Engineering Univ. of New Brunswick	NRCC/CNRC	Hydraulic effects of ice cover on streams: Effects of large roughness under ice cover on resistance to flow and dispersion of pollutants.	1976-77	6,000		40
Davar, K.S. Dept. of Civil Engineering Univ. of New Brunswick	NRCC/CNRC	Hydraulic effects of ice cover on streams.	1977-78	6,000		40

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Davar, K.S. Dept. of Civil Engineering Univ. of New Brunswick	NSERCC/ CRSNGC	Hydraulic effects of ice cover on rivers.	1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	7,000 7,245 7,955 10,500 12,128 12,056		40
Dempster, R.T. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NDD/MDN DRB/CRD	Prediction of iceberg drift off eastern Canada.	1974-75	8,000		40*
Dempster, R.T. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	An investigation of the effect of wind and iceberg size on the drift of icebergs in the Labrador Current.	1974-75 1975-76 1976-77	6,000 6,845 7,020		40*
Denner, W.W. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Labrador ice dynamics experiment (LIDEX) workshop.	1979-80 1980-81	20,000 14,990		40*
Denner, W.W. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Numerical modeling of ice conditions in the Labrador current.	1979-80 1980-81 1981-82	11,000 12,500 3,000		40*
Drapier-Arsenault, L. Stittsville, Ont.	SSC/ASC EC	Measurement of ice thickness distribution in the Beaufort Sea.	1975	9,647	(B.23)	40
Drapier-Arsenault, L. Stittsville, Ont.	SSC/ASC EC	Amendment to a contract for the measurement of ice thickness distribution in the Beaufort Sea to include analysis and plotting LANDSAT imagery over Arctic Islands for ice break-up.	1976	3,927	(B.36)	40
FENCO Toronto, Ont.	SSC/ASC EC	Study of weekly ice charts and the preparation of reports on the frequency of occurrence of total ice concentrations in the Southern Beaufort Sea.	1974	19,740	(B.16)	40
FENCO Consultants Limited Calgary, Alta.	SSC/ASC EC	Improvement of an experimental frazil ice measuring instrument.	1976	46,326	(B.45)	40
Fenco Newfoundland Limited St. John's, Nfld.	SSC/ASC EC	Development of an operational iceberg deterioration forecast model for the Labrador Sea.	1982	42,252	(B.116)	40*

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Fenco Newfoundland Limited St. John's, Nfld.	SSC/ASC EC	Iceberg deterioration field study and model validation.	1983	21,460	(B.124)	40*
F.G. Bercha and Associates Limited Calgary, Alta.	SSC/ASC TC	Development of a comprehensive theory for selecting design ice forces acting on cylindrical and conical structures.	1977	25,000	(B.49)	40
Finlayson, D.J. Woody Point, Nfld.	SSC/ASC NDD/MDN	Monitoring of ice flows around the Ellesmere Island, N.W.T.	1975	5,585	(B.25)	40
Flint, J.J. Dept. of Geology Brock Univ.	NSERCC/ CRSNGC	Fluvial morphology and sediment transport in armoured streams.	1979-80 1980-81 1981-82 1982-83	4,500 5,000 6,000 6,000		40
Garrett, G. Dalhousie Univ.	SSC/ASC DFO/MPO	Research study on iceberg trajectories/tidal models.	1983	32,389	(B.127)	40*
Gaskill, H.S. Dept. of Mathematics and Statistics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Sea ice and iceberg motion.	1982-83 1983-84	3,000 3,000		40*
Gates, E.M. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	1) An experimental investigation of icing. 2) Cavitation inception.	1978-79 1979-80 1980-81 1981-82	8,000 9,900 10,870 11,957		40
Gates, E.M. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	Mechanical engineering water tunnel modifications.	1979-80	5,500		40
Geomarine Associates Limited Halifax, N.S.	SSC/ASC EMRC	Analysis and assessment of geological data from the Southern Beaufort Sea to determine changes to the sea bottom resulting from sea ice scour.	1974	10,500	(B.17)	40

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Georesources Halifax, N.S.	SSC/ASC EMRC	Compilation of a data base for the morphology and occurence of ice scours on the Canadian continental shelves.	1980	10,000	(B.89)	40*
Georesources Halifax, N.S.	SSC/ASC EMRC	Investigation of iceberg scouring on Eastern Arctic continental shelves.	1980	5,000	(B.83)	40
Georgia Tech Research Institute Atlanta, Georgia, U.S.A.	SSC/ASC DFO/MPO	Provision of field support for Department of Fisheries and Oceans' ice radar research program.	1983	54,638	(B.123)	40
Gerard, R. Dept. of Civil Engineering Univ. of Alberta	NSERCC/ CRSNGC	Design ice conditions for river engineering projects. Breakup ice jams in rivers: Their mechanics and effects.	1978-79 1979-80 1980-81 1981-82	5,000 10,000 10,980 12,078		40
Gerard, R. Dept. of Civil Engineering Univ. of Alberta	NSERCC/ CRSNGC	River ice processes.	1982-83 1983-84	17,000 18,020		40
Gilpin, R.R. Dept. of Mechanical Engineering Univ. of Alberta	NRCC/CNRC	Dentritic and frazil ice and their effects on hydraulic components.	1975-76 1976-77 1977-78	11,215 11,500 12,466		40
Gilpin, R.R. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	Heat transfer problems involving phase change.	1978-79 1979-80 1980-81	20,000 20,700 22,729		40
Gilpin, R.R. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	Computer control and data analysis for the ice-water tunnel facility.	1978-79	24,000		40
Gilpin, R.R. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	Studies of the liquid solid phase change.	1981-82 1982-83	27,000 31,185		40
Gilpin, R.R. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	Ice research laboratory.	1981-82	20,342		40

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Gilpin, R.R. et al. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	The ice-water facility at the University of Alberta.	1977-78 1978-79	11,924 12,639		40
Gilpin, R.R. et al. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	Ice-water tunnel.	1979-80 1980-81 1981-82	9,000 9,882 10,870		40
Haedrich, R.L. Dept. of Biology Memorial Univ.	NSERCC/ CRSNGC	Biological recolonization rate in iceberg scours.	1983-84	28,128		40
Hajdo, L.E. Dept. of Mechanical Engineering Univ. of Calgary	NSERCC/ CRSNGC	Liquid crystal optics, ice domes, lung energetics.	1979-80	5,000		40
Harris, S.A. Dept. of Geography Univ. of Calgary	SSC/ASC NDD/MDN	Study of the structure and growth of the War Hunt Ice Shelf.	1982	24,830	(B.109)	40
Instrumar Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Documentation and instrumentation for the portable ice physics laboratory.	1981	50,000	(B.96)	40
Integrated Satellite Information Services Limited Prince Albert, Sask.	SSC/ASC EMRC	Provision of NOAA satellite quick-look imagery of Scott Inlet area East of Baffin Island.	1978	1,600	(B.62)	40
Integrated Satellite Information Services Limited Prince Albert, Sask.	SSC/ASC DFE/MPE	Provision of LANDSAT and NOAA imagery and transmission to Ice Forecasting Central.	1978	72,000	(B.64)	40

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Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC EC	Development of an ice prediction model for unconsolidated sea ice.	1980	697,171	(B.82)	40
Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC EC	Sensitivity and model sophistication tests on the regional ice model.	1982	40,573	(B.105)	40
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EC	Analysis of April 1981 Beaufort Sea ice data set.	1982	30,000	(B.106)	40
Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC EC	Regional ice model verification with the 1981 Beaufort Sea data set.	1982	50,000	(B.106)	40
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EMRC	Preparation and analysis of sea ice data.	1982	50,717	(B.112)	40
Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC EC	Adaptation of a multi-category ice thickness scheme for the Atmosphere Environment Service regional ice forecast model.	1982	33,828	(B.114)	40
Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC EC	Testing of the Atmospheric Environment Service regional ice forecast model on selected data sets for the Beaufort Sea and Gulf of St. Lawrence.	1982	26,697	(B.114)	40
Kellerhals, R. Dept. of Civil Engineering Univ. of Alberta	NRCC/CNRC	Lateral diffusion processes in open and ice-covered river channels.	1974-75	6,000		40
Kent, T.D. Ottawa, Ont.	SSC/ASC EC	Survey of the ice break-up and ice jamming processes on the Yukon River.	1982 1983	9,330 14,165	(B.111) (B.123)	40
Khandekar, M.L. Winnipeg, Man.	SSC/ASC DFE/MPE	Upgrading of the Atmospheric Environment Service's (AES) floe motion prediction model and literature survey on motion of fast ice.	1977	14,200	(B.57)	40

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Khandekar, M.L. Willowdale, Ont.	SSC/ASC DFE/MPE	Upgrading of the Atmospheric Environment Service's ice-floe motion prediction model and development of the first version of a model to predict movement of fast ice.	1978	33,370	(B.63)	40
Langleben, M.P. Dept. of Physics McGill Univ.	NSERCC/ CRSNGC	Drift and thermal regime of sea ice.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	9,830 11,215 11,501 11,150 14,100 14,594 16,024 9,000 10,000		40
Langleben, M.P. Dept. of Physics McGill Univ.	NSERCC/ CRSNGC	Thermal regime of sea ice.	1983-84	3,180		40
Legerer, F.J. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	On ice fracture due to impact loads Thermally induced fracture.	1976-77	6,000		40
Legerer, F.J. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	On fracture mechanics of ice.	1977-78 1978-79 1979-80	7,000 7,420 7,680		40
Lindsay, D.G. Ottawa, Ont.	SSC/ASC EMRC	Preparation of the 1975 Sea Ice Atlas, Polar Shelf Project.	1975	35,765	(B.25)	40
Lindsay, D.G. Ottawa, Ont.	SSC/ASC EMRC	Preparation of the 1976 Sea Ice Atlas.	1976	38,237	(B.37)	40
Lindsay, D.G. Ottawa, Ont.	SSC/ASC EMRC	Preparation of the 1977 Sea Ice Atlas, Polar Continental Shelf project.	1977	14,525	(B.50)	40

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Lindsay, D.G. Ottawa, Ont.	SSC/ASC EMRC	Preparation of the 1978 Sea Ice Atlas, Polar Continental Shelf Project.	1978	37,291	(B.65)	40
Lock, G.S.H. Dept. of Mechanical Engineering Univ. of Alberta	NRCC/CNRC	1) Underwater ice formation. 2) Atmospheric ice formation. 3) Free convection in rotating systems. 4) Aerated thermosyphons.	1974-75 1975-76	21,000 23,995		40
MacDonald, Dettwiler and Associates Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Development of an ice status system - part of the AES Energy Transport Program.	1978 1978 1979	16,833 30,618 38,630	(B.59) (B.68) (B.76)	40
MacLaren Plansearch Limited St. John's, Nfld.	SSC/ASC EC	Study of factors controlling iceberg drift and design of an iceberg drift prediction system.	1982	49,198	(B.106)	40*
Makios, V. Ottawa, Ont.	SSC/ASC CD/MC	A study of the feasibility of using low-frequency CW techniques for measuring the thickness of ice.	1974	4,968	(B.17)	40
Makios, V. Dept. of Electronics Carleton Univ.	SSC/ASC EC	Analysis of Arctic ice dynamics joint experiment microwave radiometer data.	1976	3,920	(B.40)	40
Maritime Offshore Services Bedford, N.S.	SSC/ASC DFO/MPO	Preparation of a technical report on hindcasting of iceberg tracks.	1983	10,800	(B.129)	40*
Martec Limited Halifax, N.S.	SSC/ASC EC	Iceberg data project.	1982	15,000	(B.108)	40*
Martec Limited Halifax, N.S.	SSC/ASC DFO/MPO	Modelling study of iceberg dynamics.	1982	20,975	(B.113)	40*
Martec Limited Halifax, N.S.	SSC/ASC DFO/MPO	Statistical description of the variability in ice advance along the Labrador coast in response to meteorological and oceanographic forcing.	1982	19,762	(B.117)	40*
Martec Limited Halifax, N.S.	SSC/ASC DFO/MPO	Study to define the extent of the relationship between ice cover in the Gulf of St. Lawrence and meteorological and oceanographic parameters.	1982	19,984	(B.117)	40
Martec Limited Halifax, N.S.	SSC/ASC EC	Spectral analysis of iceberg drift data and its application to iceberg drift modelling.	1983	13,337	(B.129)	40*

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Megaw, W.J. Dept. of Physics York Univ.	EC	Determination of ice nuclei concentrations.	1977-78	6,000		40
Memorial University of Newfoundland	SSC/ASC EMRC	Development of a Canadian offshore sea ice data base.	1983	250,000	(B.122)	40
Meteorological and Environmental Planning Company Limited Downsview, Ont.	SSC/ASC DFE/MPE	Improvement and/or development of procedures to predict ice pack concentration and compression, motion of ice pack edge and floe motion.	1979	97,739	(B.71)	40
Meteorological and Environmental Planning Company Limited Downsview, Ont.	SSC/ASC EC	Improve and extend models to predict ice pack motion concentration and compression and ice pack edge motion.	1979	65,310	(B.81)	40
Meteorological and Environmental Planning Company Limited Downsview, Ont.	SSC/ASC EC	Evaluation and tuning of the ice model developed by the MEP Company.	1981	26,890	(B.94)	40
Meteorological and Environmental Planning Company Limited Downsview, Ont.	SSC/ASC EC	Implementation of the prototype ice dynamics model.	1981	65,382	(B.104)	40
Meteorological and Environmental Planning Company Limited Downsview, Ont.	SSC/ASC EC	Further software modifications to the Meteorological Services Research Branch for ice motion.	1983	7,678	(B.119)	40
Michel, B. Dép. de Génie civil Univ. Laval	NRCC/CNRC	Modèles rhéologiques et physiques de la glace.	1974-75 1975-76	20,450 23,330		40
Michel, B. Dép. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Propriétés mécaniques de la glace.	1976-77 1977-78 1978-79 1979-80 1980-81 1981-82	23,500 25,474 27,002 30,000 32,940 36,234		40
Michel, B. Dep. de Génie civil Univ. Laval	EC	Influence d'un couvert de glace sur le mésoclimat.	1979-80 1980-81	5,000 6,000		40

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Michel, B. Dép. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Mécanique et dynamique des glaces de rivière et de lac.	1982-83	39,000		40
Michel, B. Dép. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Système hydraulique "asservi" de chargement d'un vérin et contrôles électroniques.	1982-83	41,740		40
Michel, B. Dép. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Impact de la glace sur les ouvrages de génie civil de l'Arctique, à parois inclinées.	1983-84	50,900		40
Michel, B. Dép. de Génie Civil Univ. Laval	NSERCC/ CRSNGC	Mécanique et dynamique des glaces.	1983-84	57,240		40
Michel, B. et Dhatt, G. Dép. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Indentation de la glace flottante de l'Arctique sur les structures à parois verticales.	1980-81 1981-82 1982-83	50,000 55,700 62,450		40
Molgaard, J. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Ice friction tester.	1980-81	50,665		40
Molgaard, J. and Smith, P.N. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Ice friction.	1980-81 1981-82 1982-83	40,000 54,586 53,707		40
Muller, F. Dept. of Geography McGill Univ.	SSC/ASC EC	Continuation of the study of the glacio-climatology of the north water polynya.	1975	14,651	(B.30)	40
Muller, F. Dept. of Geography McGill Univ.	SSC/ASC EC	Research study of the glacio-climatology of the North Water polynya - Northern Baffin Bay.	1976	10,000	(B.44)	40

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Murat, J.R. Dep. de Génie civil Ecole Polytechnique	NSERCC/ CRSNGC	Étude experimentale du fluage en flexion de la glace d'eau de mer.	1980-81 1981-82 1982-83	9,500 10,450 12,070		40
Murat, J.R. Dep. de Genie civil Ecole Polytechnique	NSERCC/ CRSNGC	Appareillage pour les essais mécaniques sur la glace marine.	1980-81	22,500		40
Norcor Engineering and Research Limited Yellowknife, N.W.T.	SSC/ASC EC	Field studies of meteorological, ice, biological and water conditions on the seasonal and permanent polar pack ice of the Beaufort Sea.	1976	84,913	(B.37)	40
Norcor Engineering and Research Limited Yellowknife, N.W.T.	SSC/ASC EC	Overflight studies of spring break-up of transition zone ice in the Beaufort Sea.	1976	23,952	(B.39)	40
Norcor Engineering and Research Limited Yellowknife, N.W.T.	SSC/ASC TC	Study of ice conditions along marine shipping routes in the Arctic Archipelago.	1977	209,130	(B.52)	40
Nordco Limited St. John's, Nfld.	SSC/ASC EC	Purchase of Nordco Limited baseline study on iceberg data.	1982	4,000	(B.110)	40*
Ontario Research Foundation Mississauga, Ont.	SSC/ASC PWC/TPC	Planning and design of instrumentation for measurement of ice forces at Nanisivik on Strathcona Sound.	1982	15,921	(B.108)	40
Orion Electronics Limited Digby County, N.S.	SSC/ASC EC	Design and development of an ice-tracking buoy.	1977	23,665	(B.76)	40
Parsons, R.C. Memorial Univ. of Newfoundland	NRCC/CNRC	Ice penetration system.	1974-75	4,500		40
Philip A. Lapp Limited Toronto, Ont.	SSC/ASC EC	Development of specifications for base maps to be used by Atmospheric Environment Service (AES) Ice Branch.	1983	23,743	(B.122)	40
Pohle Limited Ottawa, Ont.	SSC/ASC EMRC	Design and fabrication of pressure testing barrels.	1980	14,682	(B.86)	40
Polar Tech Limited Sidney, B.C.	SSC/ASC DFO/MPO	Construction and testing of five floating ice pressure drums.	1983	50,000	(B.118)	40

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Pounder, E.R. Dept. of Physics McGill Univ.	NDD/MDN DRB/CRD	Water stress on an ice floe.	1974-75	5,000		40
Pounder, E.R. Dept. of Physics McGill Univ.	NDD/MDN DRB/CRD	Electrical properties of sea ice.	1974-75 1975-76	10,000 8,350		40
Pounder, E.R. Dept. of Physics McGill Univ.	NRCC/CNRC	Ice drift.	1974-75 1975-76 1976-77 1977-78 1978-79	14,550 16,600 17,500 18,970 20,108		40
Pounder, E.R. and Langleben, M.P. Dept. of Physics McGill Univ.	SSC/ASC EMRC	Continuation of field studies on Arctic Sea ice in the Amundsen Gulf as well as preparation for the 1975-76 Arctic Ice Dynamics Joint Experiment.	1974	69,959	(B.18)	40
Pounder, E.R. and Langleben, M.P. Dept. of Physics McGill Univ.	SSC/ASC EMRC	Obtain and analyze data on Arctic sea ice and submit a report for the 1975-76 Arctic Ice Dynamic Joint Experiment.	1975	137,806	(B.26)	40
Pounder, E.R. and Langleben, M.P. Dept. of Physics McGill Univ.	SSC/ASC EMRC	Field studies of the Arctic sea ice in 1977 in the Western end of Barrow Strait between Griffith Island and Somerset Island, with supporting work on equipment design modification, maintenance and calibration.	1977	68,031	(B.50)	40
Pounder, E.R. and Langleben, M.P. Dept. of Physics McGill Univ.	SSC/ASC EMRC	Conduct field studies of the Arctic sea ice and the water column beneath the sea ice.	1978	67,770	(B.62)	40
Pounder, E.R. and Langleben, M.P. Dept. of Physics McGill Univ.	SSC/ASC EMRC	Completion of a study to conduct field studies of the Arctic sea ice and the water column beneath the sea ice.	1979	65,627	(B.73)	40
Pounder, E.R. and Langleben, M.P. Dept. of Physics McGill Univ.	EMRC	Analysis of data from field studies of the Arctic Sea ice and the water column beneath the sea ice.	1980 1981 1982 1983	70,000 72,025 70,000 18,000	(B.85) (B.93) (B.112) (B.118)	40

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Premier colloque sur l'action geologique des glaces flottantes Quebec	NRCC/CNRC	Conference Grants/Subventions pour conférences.	1974	4,050		40
Reddy, D.V. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NDD/MDN DRB/CRD	Stochastic analysis of ice-structure interaction.	1974-75	5,600		40
Reid, Crowther and Partners Limited Whitehorse, Yukon	SSC/ASC EC	Field study of ice thickness and related parameters on Lake Laberge, Yukon Territory.	1983	4,800	(B.118)	40
Rowe, R.D. Dept. of Mechanical Engineering Univ. of Calgary	SSC/ASC DFO/MPO	Study of the processes contributing to the momentum exchanges between a moving ice cover and the underlying ocean.	1983	19,870	(B.129)	40
Roy, P. Ottawa, Ont.	SSC/ASC DFO/MPO	Review of representative ice features on aerial photographs.	1981 1983	1,150 4,400	(B.103) (B.122)	40
Russell, W.E. Dept. of Physics Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	An experimental investigation of the response of icebergs to rapid changes in the current field.	1976-77 1977-78 1978-79	5,000 5,420 5,745		40*
Ryall, P. Dept. of Geology Dalhousie Univ.	EMRC	Preparation of report and data base of ice scour marks on Saglek Bank.	1983-84	5,500		40*
Seakem Oceanography Limited Victoria, B.C.	SSC/ASC DFE/MPE	Radar tracking of ice in the Barrow Strait region of Parry Channel, Northwest Territory.	1977	42,142	(B.52)	40
Smith, P.N. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	Mechanical energy absorption properties of ice.	1976-77 1977-78 1978-79	5,000 5,420 5,745		40
Sodhi, D.S. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Mechanics of sea ice movement.	1977-78 1978-79 1979-80	6,500 6,890 7,131		40

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Steltner Development and Manufacturing Company Limited Pond Inlet, N.W.T.	SSC/ASC EMRC	Acquisition of data on the sea ice and water environment in the Pond Inlet, Northwest Territories.	1976 1977	8,000 17,000	(B.37) (B.47)	40
Steltner Development and Manufacturing Company Limited St. Catharines, Ont.	SSC/ASC EMRC	Acquisition of sea ice and water environment data in the Pond Inlet area, NWT.	1977	15,000	(B.50)	40
Steltner Development and Manufacturing Company Limited St. Catharines, Ont.	SSC/ASC EMRC	Acquisition of sea, ice and oceanography experimental and baseline data in the Pond Inlet, N.W.T.	1977	42,000	(B.53)	40
Steltner Development and Manufacturing Company Limited St. Catharines, Ont.	SSC/ASC EMRC	Acquisition of sea ice, oceanographic and climatic experimental and baseline data in Pond Inlet area, Northwest Territories.	1978 1979	70,548 18,814	(B.59) (B.72)	40 40
Steltner Development and Manufacturing Company Limited St. Catharines, Ont.	SSC/ASC EMRC	Acquisition of ice, sea-water, iceberg movement and associated oceanographic and climatic data in eastern Lancaster Sound, N.W.T.	1979	57,161	(B.71)	40
Steltner Development and Manufacturing Company Limited Pond Inlet, N.W.T.	SSC/ASC EMRC	Acquisition of sea ice, oceanographic and climatological baseline data in the Pond Inlet, N.W.T. area between January 1, and March 31, 1982.	1982	11,995	(B.108)	40
Steltner Development and Manufacturing Company Limited Pond Inlet, N.W.T.	SSC/ASC NRCC/CNRC	Survey of sea ice conditions in Adams Island, North West Territories area.	1982	9,161	(B.109)	40
Steltner Development and Manufacturing Company Limited Pond Inlet, N.W.T.	SSC/ASC NRCC/CNRC	Sea ice investigations in the Adams Island area.	1982	6,366	(B.111)	40

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Steltner Development and Manufacturing Company Limited Pond Inlet, N.W.T.	SSC/ASC NRCC/CNRC	Adams Island ice interaction study - June 1982 field trip.	1982	7,826	(B.113)	40
Steltner Development and Manufacturing Company Limited Saint Catharines, Ont.	SSC/ASC NRCC/CNRC	Adams Island instrumentation servicing and sea ice measurement - Nov. 1982 field trip.	1982	11,037	(B.117)	40
Steltner Development and Manufacturing Company Limited Pond Inlet, N.W.T.	SSC/ASC NRCC/CNRC	Electronic distance measurement of ice movement at Adams Island - March 1983.	1983	7,732	(B.121)	40
Steltner Development and Manufacturing Company Limited Pond Inlet, N.W.T.	SSC/ASC DFO/MPO	Data acquisition at Eclipse Sound and Adams Island to study large scale deformation of sea-ice surface and variations - year 2.	1983	230,222	(B.124)	40
Stene, L.P. Dept. of Geography Univ. of Manitoba	NSERCC/ CRSNGC	Stream ice-breakup and effects on channel morphology.	1981-82 1982-83	6,000 6,000		40
Sykes, J. Dept. of Civil Engineering Waterloo Research Institute Univ. of Waterloo	SSC/ASC EC	Extension of sea ice forecast modelling study to include selection of reference frame and ice stress formulation.	1983	28,600	(B.129)	40
Sykes, J. et al. Dept. of Civil Engineering Univ. of Waterloo	NSERCC/ CRSNGC	Sea ice dynamics.	1983-84	92,842		40
Tinawi, R. Dep. de Genie civil Ecole Polytechnique	NRCC/CNRC NSERCC/ CRSNGC	La capacite portante à long terme de la glace de mer.	1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	8,000 8,480 8,777 12,000 13,200 15,246		40

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Univ. of Waterloo Waterloo, Ontario	SSC/ASC EC	Comparison of eulerian and lagrangian models for the forecasting of regional scale sea ice motion.	1983	25,437	(B.120)	40
Wadhams, P. Victoria, B.C.	SSC/ASC EC	Provision of consultant and advisory services to the Frozen Sea Research Group on statistical methods of analysis of data on sea ice cover and topography and its applications to the containment of oil by sea ice.	1975	3,600	(B.13)	40
Whillick, J. Ocean Engineering Information Centre Memorial Univ. of Newfoundland	SSC/ASC EC	Feasibility study on the Management of sea ice and iceberg information in Canada.	1981	23,035	(B.94)	40*
Wilson, N.W. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	Heat, mass and momentum transfer during the melting of icebergs in sea water.	1975-76 1976-77 1977-78	6,340 7,000 6,500		40*
Wilson, N.W. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Melting of ice in saline water.	1978-79 1979-80 1980-81	7,500 7,763 11,214		40*
Wilson, N.W. Dept. of Mechanical Engineering Univ. of Windsor	NSERCC/ CRSNGC	Melting of icebergs in water.	1981-82	9,000		40*

INVERTEBRATES, MICRO-ORGANISMS (BENTHOS, PLANKTON ...) / INVERTÉBRÉS, MICRO-ORGANISMES (BENTHOS, PLANCTON ...)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Albright, L.J. Dept. of Biological Sciences Simon Fraser Univ.	NSERCC/ CRSNGC	Bacterial and microalgal productivities within the Mackenzie River plume.	1983-84	1,856		41
Arctic Laboratories Limited Inuvik, N.W.T	SSC/ASC EC	Statistical analysis of benthic invertebrate sampling in Tuktoyaktuk Harbour, Northwest Territories.	1980	8,600	(B.90)	41
Arctic Laboratories Limited Inuvik, N.W.T.	SSC/ASC DFO/MPO	Conduct an eighteenth month study of the ice flora and plankton near Issungnak artificial island in Southern Beaufort Sea.	1981	82,850	(B.100)	41
Arctic Laboratories Limited Sidney, B.C.	SSC/ASC DFO/MPO	Preparation of draft report on Beaufort Sea zoobenthos data compilation.	1983	6,418	(B.119)	41
Arctic Laboratories Limited Sidney, B.C.	SSC/ASC DFO/MPO	Preparation of final report on Beaufort Sea zoobenthos data.	1983	26,565	(B.124)	41
Arctic Laboratories Limited Sidney, B.C.	SSC/ASC DFO/MPO	Survey of phytoplankton distribution in the southern Beaufort Sea. Remote sensing in support of ecological studies of the bowhead whale.	1983	96,052	(B.126)	41
Badour, S.S. Dept. of Botany Univ. of Manitoba	NSERCC/ CRSNGC	Carbon dioxide metabolism in Chlamydomonas.	1982-83	10,000		41
Booth, J.T. Dept. of Botany Univ. of Manitoba	NSERCC/ CRSNGC	Marine fungi of Hudson Bay, Occurrence and substrate ecology of lignicolous species of sand and estuarine waters.	1983-84	11,130		41
Brown, D.L. Pierrefonds, Que.	SSC/ASC DFE/MPE	Primary production and taxonomic studies of Arctic marine phytoplankton.	1977	9,900	(B.53)	41
Brown, D.L. Pierrefonds, Que.	SSC/ASC DFE/MPE	Study of the primary production and taxonomy of Arctic marine phytoplankton.	1978	9,758	(B.62)	41

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Cota, G.F. Armdale, N.S.	SSC/ASC DFO/MPO	Measure the physiological behaviour of the principal species of zooplankton in the Eastern Canadian Arctic.	1980	4,500	(B.89)	41
Curtis, M.A. Dept. of Parasitology McGill Univ.	NSERCC/ CRSNGC	Ecological/experimental parasitology.	1981-82 1982-83 1983-84	7,500 10,663 13,323		41*
De Feydeau, M. Montréal, Qué.	SSC/ASC DFO/MPO	Etudes physiologiques d'algues et de phytoplancton marin dans l'Arctique.	1983	4,148	(B.119)	41
Dick, T.A. Dept. of Zoology Univ. of Manitoba	NRCC/CNRC	Trichinella spiralis, biological characteristics of northern and temperate strains, Parasite interactions, T. spiralis and Hymenopelis diminuta. Parasites of sharp tail grouse Pediocetes phasianellus campestris.	1975-76 1976-77 1977-78	8,775 9,000 9,756		41
Dick, T.A. Dept. of Zoology Univ. of Manitoba	NSERCC/ CRSNGC	Parasite host interactions of Trichinella spiralis in mammals and Trialnophorus crassus in fish: parasite-parasite interaction of T. spiralis, Hymenopelis diminuta and Moniliformis dubius; biological characterization of T. spiralis.	1978-79	10,310		41
Dick, T.A. Dept. of Zoology Univ. of Manitoba	NSERCC/ CRSNGC	Studies on parasites of Northern and Arctic regions.	1982-83	3,000		41
EVS Consultants Limited North Vancouver, B.C.	SSC/ASC DFO/MPO	Compilation and inventory of Beaufort Sea benthos data.	1982	8,715	(B.107)	41
Entomological Society of Canada Ottawa, Ont.	SSC/ASC NMC/MNC	Review and synthesis of knowledge on northern and Arctic insects.	1978	139,564	(B.69)	41
Foy, M. Ste-Geneviève, Que.	SSC/ASC EC	Étude taxonomique d'échantillons et de specimens du phytoplancton de la mer Beaufort.	1975	6,055	(B.28)	41
Gallup, D.N. Dept. of Zoology Univ. of Alberta	NRCC/CNRC	1) Plankton/benthos species distribution - composition in Yukon. 2) Secondary production/benthic animals and zooplankton, benthos associated with aquatic macrophytes.	1974-75	2,000		41

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Gallup, D.N. Dept. of Zoology Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	1) Filtering, feeding, assimilation and production of selected prairie-parkland zooplankton - lab. and field. 2) Effects on fauna of ceasing thermal effluent discharge into Lake Wabamun, Alberta. 3) Effects of dam construction on drift organisms in Aishihik River, Yukon Territory; continued species distribution in Yukon.	1976-77 1977-78 1978-79	5,000 5,420 5,745		41
Gallup, D.N. Dept. of Zoology Univ. of Alberta	NRCC/CNRC	Plankton species distribution, composition and secondary production in the Yukon Secondary production of benthic animals and zooplankton (littoral, planktonic) in laboratory and selected Alberta Lakes.	1975-76	2,925		41
Gardiner, R. Flower's Cove, Nfld.	SSC/ASC DFO/MPO	Experimental scallop survey along the northern straits and Eastern Labrador coastline.	1980	36,000	(B.88)	41*
Glasspole, L. Beaconsfield, Qué.	SSC/ASC EC	Étude zoobenthique dans le cadre de l'étude de l'environnement marin de l'Arctique oriental (EASMES).	1979	6,636	(B.77)	41
Glasspole, L. Pointe-Claire, Qué.	SSC/ASC DFO/MPO	Étude de zoobenthos de l'Arctique canadien.	1980 1981	5,188 2,925	(B.93) (B.101)	41
Gow, J.A. Dept. of Biology Memorial Univ.	NSERCC/ CRSNGC	Physiology and systematics of cold ocean bacteria.	1980-81 1981-82 1982-83 1983-84	8,000 8,800 10,164 8,480		41
Griffiths, G.C.D. Dept. of Entomology Univ. of Alberta	SSC/ASC AC	Research and preparation of a publication of Genera and species of Root Maggots in Canada and Alaska.	1977	71,209	(B.46)	41
Grohe, C. Dollard-des- Ormeaux, Que.	SSC/ASC EC	Taxonomic studies of zooplankton from the Beaufort Sea.	1975	4,600	(B.28)	41
Haffner, G.D. Dept. of Biology Univ. of Windsor	NSERCC/ CRSNGC	Diversity and resource utilization in zooplankton and phytoplankton.	1980-81 1981-82 1982-83	6,000 6,600 7,623		41
Hann, B.J. Dept. of Zoology Univ. of Manitoba	NSERCC/ CRSNGC	Genetic variation and population differentiation in Simocephalus and Eurycercus.	1982-83 1983-84	10,000 10,600		41

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Hardy Associates (1978) Limited Dartmouth, N.S.	SSC/ASC DFO/MPO	Identification and analysis of ice algae samples.	1983	8,118	(B.126)	41
Hardy Associates (1978) Limited Dartmouth, N.S.	SSC/ASC DFO/MPO	Zooplankton identification and enumeration for the Canadian Expedition to Study Alpha Ridge Project.	1983	8,763	(B.127)	41
Hebert, P.D.N. Dept. of Biology Univ. of Windsor	NSERCC/ CRSNGC	1) The genetics and ecology of the genus Daphnia. 2) Manipulation of arctic zooplankton communities. 3) Species diversity patterns in the lepidoptera of Papua, New Guinea.	1980-81 1981-82 1982-83	35,000 38,500 44,468		41
Hebert, P.D.N. Dept. of Biology Univ. of Windsor	NSERCC/ CRSNGC	Water quality meter.	1980-81	19,650		41
Hebert, P.D.N. Dept. of Biology Univ. of Windsor	NSERCC/ CRSNGC	Controlled environment chambers.	1981-82	22,000		41
Hebert, P.D.N. Dept. of Biology Univ. of Windsor	NSERCC/ CRSNGC	The genetics and ecology of arctic zooplankton communities.	1982-83 1983-84	6,500 9,010		41
Helava, J. Dept. of Biology Carleton Univ.	SSC/ASC AC	Study and preparation of a publication on the Genera and Species of "Hister Beetles" in Canada and Alaska.	1977	65,117	(B.47)	41
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Self recording current meters (six).	1981-82	44,998		41*
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Self recording tide gauge.	1983-84	8,733		41*
Ingram, R.G., Legendre, L. and Chu, V.H. McGill Univ. and Univ. Laval	NSERCC/ CRSNGC	Entrainment, mixing processes and phytoplankton production in an under-ice Hudson Bay plume.	1981-82 1982-83 1983-84	68,700 75,892 40,966		41*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Inniss, W.E. Dept. of Biology Univ. of Waterloo	NSERCC/ CRSNGC	Environmental and physiological activities of microorganisms in cold environments.	1979-80 1980-81 1981-82 1982-83 1983-84	19,000 20,862 22,948 26,000 27,560		41
Jordan, D.C. Dept. of Microbiology Univ. of Guelph	NRCC/CNRC	Evaluation of biological nitrogen-fixation by bacteria and blue-green in a high Arctic ecosystem.	1976-77 1977-78 1978-79	8,000 8,672 9,192		41
Keays, J.R. Powell River, B.C.	SSC/ASC EC	Enumeration and identification of zooplankton in preserved water samples from the Headwater Lakes of the Yukon River.	1982	1,955	(B.117)	41
Keays, J.H. Powell River, B.C.	SSC/ASC DFE/MPE	Identification and enumeration of benthic macro-invertebrate samples collected in the Yukon Territory.	1977	700	(B.57)	41
Low, C.J. Nanaimo, B.C.	SSC/ASC EC	Identification and enumeration of benthic invertebrates from Howard's Pass, Little Teslin Lake and Venus Mine, Yukon Territory.	1980	6,300	(B.90)	41
Low, C.J. Nanaimo, B.C.	SSC/ASC EC	Identification and enumeration of bottom fauna samples from water quality studies in the Yukon.	1983	5,200	(B.125)	41
Luney, S. Winnipeg, Man.	SSC/ASC DFO/MPO	Sort benthic samples from the Saqvaqjuac field camp area.	1982	7,200	(B.111)	41
MacLaren Atlantic Limited Dartmouth, N.S.	SSC/ASC DFE/MPE	Assessment of shrimp, fishery potential in Davis Strait, Hudson Strait, Ungava Bay and Northern Labrador Sea.	1978	244,321		41*
MacLaren Atlantic Limited Dartmouth, N.S.	SSC/ASC INAC/AINC	Study of primary productivity in the open sea, associated with pack ice in the Davis Strait - April and May 1978.	1978	14,819	(B.62)	41
MacLaren Marex Incorporated Dartmouth, N.S.	SSC/ASC DFE/MPE	Identification and enumeration of phytoplankton samples collected in Baffin Bay, Bedford Basin and the Scotian Shelf.	1978	3,525	(B.69)	41
MacLaren Plansearch Limited Dartmouth, N.S.	SSC/ASC DFO/MPO	Chemical and species composition analysis of samples collected on a survey in the Barrow Sill Region of the Northwest Passage March-April 1981.	1981	12,730	(B.97)	41

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MacLaren Plansearch Limited Vancouver, B.C.	SSC/ASC DFO/MPO	Study of plankton for the Beaufort Sea.	1982	9,670	(B.109)	41
MacLaren Plansearch Limited Dartmouth, N.S.	SSC/ASC DFO/MPO	Continuation of chemical analysis of samples collected in the Barrow Sill.	1982	4,200	(B.110)	41
MacLaren Plansearch Limited Dartmouth, N.S.	SSC/ASC DFO/MPO	Further study of phytoplankton consumption by Arctic zooplankton.	1982	11,000	(B.107)	41
Mamet, B.L. Dep. de Géologie Univ. de Montréal	EMRC	Carboniferous foraminifers and algae, B.C., Yukon, and Districts of Mackenzie and Franklin.	1982-83	5,000		41
Miller, G.H. Institute of Arctic and Alpine Studies Univ. of Colorado Boulder, Colorado, USA	SSC/ASC EMRC	Determinations of amino acid age on molluscan shell samples from the Eastern Arctic region.	1978 1978 1980 1981	2,882 4,480 6,840 3,267	(B.60) (B.64) (B.89) (B.104)	41
Montgomerie, R.D. Dept. of Biology Queen's Univ. at Kingston	NSERCC/ CRSNGC	Competition among arctic bumblebees.	1980-81 1981-82 1982-83	10,000 22,000 25,410		41
Montgomerie, R.D. Dept. of Biology Queen's Univ. at Kingston	NSERCC/ CRSNGC	Competition among Arctic bumble-bees/use of time, energy and space by High Arctic birds.	1982-83	6,000		41
Morgan, M.A. Dept. of Biology Univ. of Waterloo	NSERCC/ CRSNGC	Spatial changes in the Canadian insect fauna during the late Pleistocene and recent.	1981-82 1982-83	11,000 12,705		41
Morgan, A.V. Dept. of Earth Sciences Univ. of Waterloo	NSERCC/ CRSNGC	Modern insect collecting at three sub-Arctic and Arctic localities.	1982-83	5,000		41
Morgan, A.V. and Morgan, M.A. Dept. of Earth Sciences Univ. of Waterloo	NSERCC/ CRSNGC	Spatial changes in the Canadian insect fauna during the late Pleistocene and recent.	1980-81 1981-82 1982-83	17,750 19,525 22,551		41

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Morgan, A.V. and Morgan, M.A. Dept. of Earth Sciences Univ. of Waterloo	NSERCC/ CRSNGC	Paleoecology, zoogeography and paleontology of quarternary insects.	1983-84	32,860		41
Munro, K. North Vancouver, B.C.	SSC/ASC EC	Enumeration and identification of phytoplankton in Lugol's preserved water samples from the Headwater Lakes of the Yukon River.	1982	1,550	(B.117)	41
Nalewajko, C. Dept. of Life Sciences Univ. of Toronto	DFO/MPO	An assessment of the significance of phytoplankton excretion to bacteria in Arctic marine waters.	1983-84	12,500		41
Oliver, D.R. Dept. of Biology Carleton Univ.	NRCC/CNRC	Comparative study of taxonomy and ecology of arctic and north temporate chironomidae.	1974-75 1975-76 1976-77 1977-78	3,360 3,415 5,000 5,420		41
Peck, F. Burlington, Ont.	SSC/ASC EC	Enumeration and identification of phytoplankton from Hudson Bay.	1976	2,500	(B.34)	41*
Pilkington, M.F. Dollard-des-Ormeaux, Que.	SSC/ASC EC	Collection and assembly of marine samples for a study on metabolic tests of microbial isolates of Arctic marine origin.	1974	5,920	(B.18)	41
Pinkewycz, N. Dollard-des-Ormeaux, Que.	SSC/ASC DFO/MPO	Études taxonomiques du phytoplancton des mers arctiques.	1982	10,680	(B.114)	41
Pinkewycz, N. Dollard-des-Ormeaux, Que.	SSC/ASC DFO/MPO	Études sur le plancton marin et les bactéries marines de l'Arctique.	1983	18,240	(B.122)	41
Plansearch Incorporated Dartmouth, N.S.	SSC/ASC DFO/MPO	Study of phytoplankton consumption by Arctic zooplankton.	1981	2,198	(B.99)	41
Plowright, R.C. Dept. of Zoology Univ. of Toronto	NSERCC/ CRSNGC	Pollination ecology and dynamics of bumble bee colonies.	1982-83 1983-84	40,000 42,400		41
Plowright, R.C. Dept. of Zoology Univ. of Toronto	NSERCC/ CRSNGC	Fluorescence microscope and accessories.	1983-84	8,416		41
Pocklington, P. Dartmouth, N.S.	SSC/ASC NMC/MNC	Identification and synopsis of polychaetous annelids of the Canadian Atlantic and eastern Arctic oceans.	1981	25,845	(B.102)	41

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Ritchie, J.C. Dept. of Botany Univ. of Toronto	EC	Ostracode analysis of Late Wisconsin lacustrine sediments from Northern Yukon.	1977-78	5,000		41
Ritchie, J.C. Dept. of Botany Univ. of Toronto	EMRC	Ostracode analysis of late Wisconsin lacustrine sediments from N. Yukon.	1977-78	6,000		41
Ritchie, J.C. Dept. of Botany Univ. of Toronto	DFO/MPO	Studies on ostracoda from Chesterfield Inlet and Baker Lake, Northwest Territory.	1978-79	6,000		41
Ritchie, J.C. Dept. of Botany Univ. of Toronto	EMRC	Studies on quaternary marine benthic ostracodes from the Canadian Arctic Archipelago and Beaufort Sea area of the Arctic Ocean.	1978-79	5,500		41
Robinson, K. Como, Que.	SSC/ASC EC	Étude du zooplancton dans le cadre du programme d'étude de l'environnement marin de l'Arctique oriental (EAMES) à l'ile Brevort.	1979	8,848	(B.77)	41
Roff, J.C. Dept. of Zoology Univ. of Guelph	NRCC/CNRC	Production, energetics and metabolism of zooplankton communities.	1974-75	4,000		41
Roff, J.C. Dept. of Zoology Univ. of Guelph	NRCC/CNRC	Energetics and metabolism of zooplankton.	1975-76	4,875		41
Roff, J.C. Dept. of Zoology Univ. of Guelph	NRCC/CNRC NSERCC/ CRSNGC	Distribution, biology and behaviour of plankton.	1976-77 1977-78 1978-79 1979-80 1980-81	5,000 7,000 12,000 12,420 13,637		41
Roff, J.C. Dept. of Zoology Univ. of Guelph	NSERCC/ CRSNGC	Biological oceanography and larval fish feeding studies.	1981-82	16,000		41
Roff, J.C. Dept. of Zoology Univ. of Guelph	NSERCC/ CRSNGC	Partitioning of energy resources between zooplankton and zoobenthos.	1982-83 1983-84	30,000 28,090		41
Roff, J.C. Dept. of Zoology Univ. of Guelph	NSERCC/ CRSNGC	Energy fluxes from planctonic and epontic communities to benthos.	1983-84	10,600		41

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Scudder, G.G.E. Dept. of Zoology Univ. of British Columbia	NSERCC/ CRSNGC	1) Studies on Hemiptera 2) Ecological and evolutionary studies on terrestrial and aquatic insects 3) Studies on insect morphology and development.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82	18,000 20,535 27,000 29,268 31,024 38,865 42,674 46,941		41
Scudder, G.G.E. Dept. of Zoology Univ. of British Columbia	NSERCC/ CRSNGC	Systematic, morphological, physiological and developmental studies on hemiptera.	1982-83 1983-84	61,000 64,660		41
Scudder, G.G.E. Dept. of Zoology Univ. of British Columbia	NSERCC/ CRSNGC	Spectrophotometer, with recorder, changer and thermostatted holder.	1982-83	15,100		41
Scudder, G.G.E. and Wiggins, G.W.B. Dept. of Zoology Univ. of British Columbia and Univ. of Toronto	NSERCC/ CRSNGC	The insect fauna of the Yukon.	1981-82 1982-83 1983-84	36,000 41,580 44,075		41
Tan, S.C. Brossard, Qué.	SSC/ASC DFO/MPO	Études d'echantillons de zooplancton de l'Arctique.	1981 1982	6,500 6,890	(B.105) (B.117)	41
Trucco, R.G. Ottawa, Ont.	SSC/ASC EC	Taxonomic studies of marine phytoplankton from Brevort Island for the Eastern Arctic Marine Environmental Study (EAMES).	1979	8,400	(B.77)	41
Van Leewenkamp, M. Dorion, Que.	SSC/ASC EC	Taxonomic studies of Arctic marine phytoplankton for the Eastern Arctic Marine Environmental Study (EAMES).	1979	6,120	(B.77)	41
Van Leewenkamp, M. Dorion, Que.	SSC/ASC DFO/MPO	Taxonomic studies of Arctic marine phytoplankton.	1981 1982	9,800 6,300	(B.100) (B.110)	41
Vickers, G. Dorval, Que.	SSC/ASC DFO/MPO	Études taxonomiques du phytoplancton marin arctique.	1980	9,978	(B.89)	41
Vickers, G. Dorval, Qué.	SSC/ASC DFO/MPO	Études de la systématique des algues microscopiques des glaces marines.	1981	3,300	(B.97)	41
Weinstein, A. Montreal, Que.	SSC/ASC EC	Study of zoobenthic samples from the Beaufort Sea.	1974	9,000	(B.18)	41

JUSTICE, LAW, FOLK LAW, CONSTITUTIONAL LAW / JUSTICE, LOI, DROIT COUTUMIER, DROIT CONSTITUTIONNEL

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
H.J. Bradley and Associates Victoria, B.C.	SSC/ASC JC	Analysis of judicial case management practices in the Northwest Territories.	1983	38,000	(B.120)	42
H.J. Bradley and Associates Victoria, B.C.	SSC/ASC JC	Study to evaluate case management and trial coordination practices and how they affect victim/witness of crime in the Yukon.	1983	20,520	(B.120)	42
Havenman, P. Dept. of Human Justice Univ. of Regina	SGC	Literature review on natives and justice.	1981-82	2,485		42
Hemingway, P. Fac. of Education Univ. of Regina	SGC	An opinion study concerning causes and solutions of problems related to Indians and crime.	1982-83	25,832		42
Littlebear, L. Dept. of Native Studies Univ. of Lethbridge	INAC/AINC	Land tenure system in the Indian Act.	1979-80	15,000		42
McCann, S.B. Dept. of Geography McMaster Univ.	INAC/AINC	Expert witness for Justice in the Shaw Case.	1978-79	5,600		42
Pearcey, R. Vancouver, B.C.	CC/CAC	Book on application of criminal justice in northern Canada, 1920-54.	1977-78	9,000		42
Slattery, B. York Univ.	SSHRCC/ CRSHC	Aboriginal title in Canada.	1983-84	33,363		42

LAND CLAIMS, AGREEMENTS / REVENDICATIONS TERRITORIALES, ENTENTES, TRAITÉS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Erasmus, G. Yellowknife, N.W.T.	CC/CAC	Book about experiences of colonization among aboriginal peoples and the Denendeh proposal for political reconstruction.	1983-84	14,800		43
Felt. H.A. McGill Univ.	CC/CAC	The James Bay and Northern Quebec Agreement as a case study of native land claims in Canada.	1978-79 1979-80	18,760 20,740		43*
Hills, T.L. McGill Univ.	SSHRCC/ CRSHC	Land claims and space needs of native peoples.	1978-79	7,530		43*
Koester, C.B. Dept. of History Univ. of Saskatchewan	INAC/AINC	Bases to calculate compensation to Indian bands for the loss of identifiable lands.	1974-75	4,999		43
Lester, G.S. Dept. of Northern Studies McGill Univ.	INAC/AINC	The territorial rights of the Inuit of the Canadian Northwest Territories: A legal agreement.	1980-81	3,000		43
Morrison, W.R. Dept. of History Brandon Univ.	INAC/AINC	To prepare a survey of the history and claims of the native people of the Canadian North.	1982-83	8,000		43
Morse, B.W. Fac. of Law Univ. of Ottawa	INAC/AINC	Labour relations dispute resolution mechanisms and Indians land claims.	1980-81	4,800		43
Pelletier, G. Québec, Qué.	SSC/ASC EC	Rapports et études statistiques relatifs à la convention de la Baie James et du Nord Québécois.	1979	2,565	(B.77)	43*
Roy, E. Québec, Qué.	SSC/ASC DFE/MPE	Analyse des réclamations des autochtones telles qu'énoncées par les voies judiciaires au Québec entre 1970 et 1977.	1978	1,700	(B.59)	43*
Salisbury, R.F. Dept. of Anthropology McGill Univ.	CC/CAC	Social change and development among the James Bay Cree resulting from the 1975 Agreement.	1979-80	31,419		43*
Salisbury, R.F. Dept. of Anthropology McGill Univ.	SSHRCC/ CRSHC	Decisions and development decentralisation and James Bay.	1981-82	10,312		43*

LAND USE AND MANAGEMENT, LAND USE PLANNING, REGIONAL DEVELOPMENT / UTILISATION ET GESTION DES TERRES, AMÉNAGEMENT DU TERRITOIRE, DÉVELOPPEMENT RÉGIONAL

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Acres Consulting Services Limited Niagara Falls, Ont.	SSC/ASC INAC/AINC	Research study on the water resources of the Northwest Territories relevant to the inventory of waters and to management alternatives and potential uses of water in various northern regions.	1975	55,000	(B.32)	44
Boulet, E. Québec, Qué.	SSC/ASC EC	Examen et analyse des différentes méthodologies de cartographie de l'utilisation du territoire en milieu autochtone qui ont été mises en oeuvre dans le monde.	1980	1,999	(B.82)	44
Channel Productions Incorporated Vancouver, B.C.	SSC/ASC EC	Preparation of an audio-visual presentation of the Yukon River Basin planning study.	1980	4,446	(B.89)	44
Cherkasov, A.I. Institute of U.S.A. and Canada Studies (USSR)	SSHRCC/ CRSHC	Problems of Northern Development in Canada.	1979-80	-		44
Duerden, F. Ryerson Poly-technical Institute	SSHRCC/ CRSHC	The structure of the settlement system of the Yukon Territory.	1978-79	9,249		44
F.F. Slaney and Company Limited Vancouver, B.C.	SSC/ASC INAC/AINC	Provision of a Yukon land use and resources inventory in a map and overlay format.	1975	285,000	(B.24)	44
Hedlin, R.A. Dept. of Soil Science Univ. of Manitoba	SSC/ASC AC	Inventory and interpretation of soil and land resources of Somerset and Prince of Wales Islands, Northwest Territories.	1975	17,000	(B.28)	44
Indian Brotherhood of the Northwest Territories Yellowknife, N.W.T.	SSC/ASC EC	Up-date of the land use information series for the MacKenzie Valley.	1975	13,800	(B.28)	44

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC INAC/AINC	Program to aid the management of the ground water resources in the Yukon Territory.	1975	9,568	(B.23)	44
Interdisciplinary Systems Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Comprehensive study of past and potential land use in Area A - proposed Tuktoyaktuk land freeze.	1977	88,526	(B.49)	44
Interdisciplinary Systems Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Evaluation of the Arctic Land Use Research Program (ALUR).	1978	18,000	(B.67)	44
J.C. Sproule and Associates Limited Calgary, Alta.	SSC/ASC INAC/AINC	The production of terrain sensitivity photomosaics and related land use classification charts for Banks Island, N.W.T.	1974	36,025	(B.16)	44
J.C. Sproule and Associates Limited Calgary, Alta.	SSC/ASC INAC/AINC	Production of terrain sensitivity photo-mosaics and related land use classification charts for Canadian Arctic Islands.	1974 1975	116,914 164,000	(B.18) (B.25)	44
Makivik Corporation Montreal, Que.	SSC/ASC EC	Study of Inuit land use patterns in new Quebec.	1981 1981	13,343 8,770	(B.96) (B.100)	44*
Richardson, N. Toronto, Ont.	SSC/ASC EC	Special adviser on land use and land use planning issues to the Beaufort Sea Environmental Assessment Panel Review.	1983	9,000	(B.118)	44
Seacoast Planning Group North Vancouver, B.C.	SSC/ASC EC	Beaufort sea regional planning study.	1981 1982	15,000 7,700	(B.105) (B.111)	44

MARINE ECOSYSTEMS / ÉCOSYSTÈMES MARINS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Chiperzak, D. Lethbridge, Alta.	SSC/ASC DFO/MPO	Analysis of fish stomach, benthic, plankton and juvenile fish samples collected under the Mackenzie Delta/Beaufort Sea Program.	1981	3,900	(B.105)	45
Cota, G.F. Halifax, N.S.	SSC/ASC DFO/MPO	Investigation of food chains associated with ice algae in Northwest Passage, Spring 1983.	1983	7,995		45
Dunbar, M.J. Marine Science Centre McGill Univ.	NSERCC/ CRSNGC	Marine ecological research in the Gulf of St. Lawrence and the Arctic.	1980-81 1981-82 1982-83	20,000 22,000 25,410		45
Dunbar, M.J. Westmount, Que.	SSC/ASC EC	Study of the biological and physical oceanography of polynya and non-polynya areas in the Canadian Arctic.	1980	5,000	(B.87)	45
Dunbar, M.J. Marine Science Centre McGill Univ.	NRCC/CNRC NSERCC/ CRSNGC	Studies on plankton, other invertebrates and fish, ecosystem interaction, Gulf of St. Lawrence, eastern seaboard, and Arctic.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	26,000 29,660 25,000 22,000 20,140 20,845		45*
Dunbar, M.J. Dept. of Oceanography McGill Univ.	NSERCC/ CRSNGC	Marine ecological research, Arctic Gulf of St. Lawrence and North Atlantic.	1983-84	15,900		45
Gilbert, R. Dept. of Geography Queen's Univ. at Kingston	NSERCC/ CRSNGC	Nearshore marine environments of eastern Baffin Island & Labrador.	1981-82	3,000		45*
Johnson, A.M. Winnipeg, Man.	SSC/ASC DFO/MPO	Prepare a series of resource inventory and habitat sensitivity maps for the Beaufort Sea, Northwest Passage and Baffin Bay.	1982	6,500	(B.111)	45

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Kingston, J.F. Dept. of Chemistry Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Natural products from cold ocean marine organisms.	1982-83	10,000		45
Parsons, T.R. Institute of Oceanography Univ. of British Columbia	SSC/ASC EC	A study covering biological oceanography as practised in northern waters with emphasis on major biological oceanographic programs and their findings.	1974	17,000	(B.16)	45
Parsons, T.R. Vancouver, B.C.	SSC/ASC EC	Special advisor on marine biological issues to the Beaufort Sea environmental assessment panel review.	1982	5,000	(B.117)	45
Polar Oceans Conference McGill Univ.	NRCC/CNRC	Conference Grants/Subventions pour conferences.	1974	12,000		45
Roy, P. Ottawa, Ont.	SSC/ASC DFO/MPO	Scientific support for an aerial survey of Navy Board Inlet.	1981	3,000	(B.97)	45
Stearn, C.W. Dept. of Geological Sciences McGill Univ.	SSC/ASC EMRC	Megafaunas, lithology and paleoecological setting of the Blue Fiord formation in the Sor Fiord area of southern Ellesmere Island.	1978	2,000	(B.66)	45
Szabo, I. North Vancouver, B.C.	SSC/ASC EC	Identification of marine environmental concerns in the Beaufort region.	1981	1,200	(B.94)	45

MEDICINE, HUMAN PHYSIOLOGY, PUBLIC HEALTH / MÉDECINE, PHYSIOLOGIE HUMAINE, SANTÉ PUBLIQUE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Adimec Incorporated Montreal, Que.	SSC/ASC HWC/SBSC	Study and evaluation of the health education material needs for Indian and Eskimo peoples.	1975	13,425	(B.28)	46
Beiser, M. Dept. of Psychiatry Univ. of British Columbia	HWC/SBSC	Epidemiology of Mental Disorder in Native Children.	1983-84	380,629		46
Bryce-Larke, R.P. Fac. of Medicine Univ. of Alberta	NDD/MDN DRB/CRD	Study of respiratory viral disease at CFB Comox and CFS Alert.	1978-79 1981-82	25,369 8,200		46
Bryce Larke, R.P. Fac. of Medicine Univ. of Alberta	SSC/ASC DFE/MPE	Examination of respiratory viral disease at Canadian Forces Bases Comox and Alert.	1979	33,537	(B.71)	46
Bryce Larke, R.P. Fac. of Medicine Univ. of Alberta	SSC/ASC NDD/MDN	Examination of respiratory viral disease at CFB Comox and CFS Alert.	1980	23,998	(B.82)	46
Carey, L.S. Dept. of Diagnostic Radiology Univ. of Western Ontario	SSC/ASC CD/MC	Research study covering statistics related to a tele-medicine satellite project at Mouse Factory, James Bay area.	1974	10,000	(B.17)	46
Davidson P.O. Dept. of Psychology Univ. of British Columbia	HWC/SBSC	Drug and alcohol treatment program development - British Columbia and Yukon.	1975-76 1976-77 1977-78 1978-79 1979-80	13,287 43,500 89,200 95,910 98,585		46
Delahaye, D.J. Dept. of Paediatry Queen's Univ. at Kingston	HWC/SBSC	Paediatric intervention in transitional isolated Cree Indian communities.	1977-78	20,977		46*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Delahaye, D.J. Dept. of Paediatry Queen's Univ. at Kingston	HWC/SBSC	Child and family health in transitional subarctic Indian communities in the James Bay area.	1978-79	24,799		46*
Ellestad-Sayed, J.J. Univ. of Manitoba	INAC/AINC	Research into the value of indigenous foods consumed by Canadian Inuit and Indians in the North.	1976-77	6,500		46
Ellestad-Sayed, J.J. Dept. of Paediatry Univ. of Western Ontario	HWC/SBSC	Nutrition, growth and morbidity of Canadian Eskimo (Indian) children.	1978-79 1979-80 1980-81	49,968 37,828 279		46
Ellestad Sayed, J.J. Dept. of Paediatry Univ. of Western Ontario.	HWC/SBSC	Prevalence of milk (lactose) intolerance and its impact on vitamin D. Status of Canadian Indian and Inuit children.	1982-83	40,065		46
Energy Systems Corporation Nashua, New Hampshire, U.S.A.	SSC/ASC NDD/MDN	Provision of Downed Airman Power System (DAPS) heaters and liners for fitting into Arctic casualty evacuation bags.	1975	15,000	(B.24)	46
Foggin, P.M. Dep. de Geographie Univ. de Montreal	HWC/SBSC	État de sante et facteurs de risque des populations autochtones du Nouveau-Québec	1983-84	130,460		46*
Fraser, T.M. Univ. of Waterloo	NDD/MDN DRB/CRD	Human response to buffeting and vibration in snowmobiles and all-terrain vehicles	1974-75	9,500		46
Gurwith, M. Dept. of Medical Microbiology Univ. of Manitoba	HWC/SBSC	Investigation of the role of enterotoxigenic E coli in Northern Canada.	1977-78 1978-79 1979-80 1980-81	16,155 62,952 19,840 3,740		46
Hammond, G. Dept. of Medical Microbiology Univ. of Manitoba	HWC/SBSC	An epidemiologic study of central nervous system infections in Manitoba and the Keewatin District Northwest Territories.	1981-82 1982-83 1983-84	12,150 12,150 21,555		46
Haworth, J.C. Dept. of Paediatry Univ. of Manitoba	HWC/SBSC	Assessment of the Nutritional Status of Indian Children at the Children's Hosp. of Winnipeg.	1975-76 1976-77 1977-78	30,700 51,010 25,152		46

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Hazlett, C.B. Dept. of Community Medicine Univ. of Alberta	HWC/SBSC	Comparative Field Evaluation of Nurses Practising in Isolated Nursing Stations.	1977-78 1978-79 1979-80 1980-81	67,123 262,316 97,239 10,473	46
Howell, A.R. Dept. of Mechanical Engineering The Industrial Research Institute Univ. of Windsor	SSC/ASC TC	Study of noise exposure data of motor-cyclists and snowmobilers.	1976 1977	51,957 (B.37) 55,186 (B.53)	46
Iversen, J.O. Dept. of Veterinary Medicine Univ. of Saskatchewan	NDD/MDN DRB/CRD	Arbovirus investigations, tundra communities, Keewatin District, Northwest Territories.	1974-75 1975-76	10,000 7,050	46
Johnson, G.J. Dept. of Ophthalmology Memorial Univ. of Newfoundland	CNIB/INCA	An epidemiological survey of causes of blindness and visual disability in Newfoundland and Labrador.	1979-80	11,000	46*
Katsarkas, A. Dept. of Otolaryngology McGill Univ.	HWC/SBSC	Conservative Treatment of Chronic Ear Disease in the Eskimo Child Population of Frobisher Bay.	1974-75 1975-76	9,999 3,692	46
Leduc, G. Dep. de Biologie Univ. Concordia	SSC/ASC INAC/AINC	Étude de la toxicité de l'arsenic et du cyanure en rapport avec le travail dans les mines du Nord.	1975	35,555 (B.26)	46*
Lobban, M.C. Dept. of Physiology Memorial Univ. of Newfoundland	HWC/SBSC	An investigation of circadian rhythms of renal excretion in Northern peoples in the Labrador.	1981-82 1982-83	10,358 15,974	46*
Mankiewicz, E. Royal Edward Chest Hospital	HWC/SBSC	A study of Cell-Mediated Responses in Eskimo Patients with Tuberculosis.	1974-75	18,595	46
Mankiewicz, E. Royal Edward Chest Hospital	HWC/SBSC	Phagetyping of Mycobacteria, Principally those Isolated from Eskimo Patients; as Part of an International Co-operative Study by the Reference Lab. of the World Health Org. on the "World Distribution of M. Tuberculosis.	1974-75	7,192	46

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
McLean, D.M. Fac. of Medicine Univ. of British Columbia	SSC/ASC NRC	Study on arbovirus prevalence in the Western Canadian Arctic.	1979	120,375	(B.75)	46
McLean, D.M. Fac. of Medicine Univ. of British Columbia	HWC/SBSC	Arbovirus Prevalence in the Western Canadian Arctic.	1982-83 1983-84	35,604 38,606		46
Morgan, R.W. Dept. of Preventive Medicine Univ. of Toronto	HWC/SBSC	Genetic Aspects of an epidemic of Myopia in Eskimos.	1974-75	8,545		46
Oen, K.G. and Postl, B. Dept. of Paediatrics and Community Medicine Univ. of Manitoba	HWC/SBSC	Rheumatic Diseases Among the Inuit in the Keewatin.	1983-84	42,223		46
Roberts, R.S. Dept. of Clinical Epidemiology and Biostatistics McMaster Univ.	SSC/ASC CD/MC	Study on the evaluation for assessing the effect of telemedicine on the delivery of health care in the Moose Factory community.	1977	13,684		46
Sayed, J.E. Dept. of Paediatry Univ. of Manitoba	HWC/SBSC	Nutrition, growth and morbidity of Canadian Eskimo children.	1977-78 1978-79	40,287 35,760		46
Souchotte, S. and Harrison, N. Yellowknife, N.W.T.	CC/CAC	Book on growth and development, through creative parenting, of children with fetal alcohol syndrome.	1983-84	7,900		46
Stager, P. Fac. of Arts York Univ.	SSC/ASC NDD/MDN	Research study in visual and other human factor problems associated with research and rescue in the Arctic.	1975	2,000	(B.31)	46
Stiver, H.G. Dept. of Infectious Diseases Univ. of Manitoba	HWC/SBSC	An epidemiologic study of central nervous system infections in Manitoba and the Keewatin District Northwest Territories.	1980-81	23,500		46

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Univ. of Saskatchewan Committee on Northern Studies	INAC/AINC	Yukon health care records study.	1980-81	10,000		46
Wilson, L.G. Manotick, Ont.	SSC/ASC EC	Study to determine the feasibility of developing a means of maintaining hand warmth under severe Arctic winter conditions.	1975	12,500	(B.23)	46
Yamamoto, T. Dept. of Microbiology Univ. of Alberta	SSC/ASC EC	Preliminary analysis of enterovirus content in municipal sewage in selected communities in the Northwest Territories and Alberta.	1974	17,975	(B.18)	46

MERCURY / MERCURE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Adams, A. Winnipeg, Man.	SSC/ASC EC	Study to determine the influence of different environmental variables on the methylation and demethylation of mercury by sedimentary microbes from lakes and hydro-electric reservoirs of the Churchill-Rat River system.	1983	14,000	(B.127)	47
Linklater, C. Nat. Indian Brotherhood Ottawa	HWC/SBSC	Effects of Mercury Pollution on the Human Body, Livelihood and way of life of Indian People.	1974-75 1976-77 1977-78	37,334 57,280 14,702		47
Linklater, C. Nat. Indian Brotherhood Ottawa	HWC/SBSC	Sediment Survey for Mercury Content in Rivers and Lakes of N.W. Quebec in Local Areas of Indian Reserves in that area.	1976-77 1977-78	11,454 3,050		47*
MacCrimmon, H.R. Dept. of Zoology Univ. of Guelph	SSC/ASC NRCC/CNRC	Biolimnological influences on mercury uptake and storage within the aquatic ecosystem of undisturbed Pre-cambrian Shield lakes - phase II.	1981	45,062	(B.96)	47
McLeod, I. Vancouver, B.C.	SSC/ASC DFE/MPE	Compilation, evaluation and preparation of chapters of the Mercury Status Report pertaining to mercury contamination of water, sediments, soils and industrial effluents and emissions in British Columbia and the Yukon.	1977	7,325	(B.55)	47
Roy, A.W. Nat. Indian Brotherhood Ottawa	HWC/SBSC	Dietary Component Survey of an Indian Community in N.W. Quebec who have been dependent on fish (food) with a high Mercury content.	1978-79	2,340		47*
Roy, A.W. Nat. Indian Brotherhood Ottawa	HWC/SBSC	Effect of Mercury Pollution on the Human Body, Livelihood and Way of Life of the Indian people.	1978-79	20,275		47*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Roy, A.W. Nat. Indian Brotherhood Ottawa	HWC/SBSC	Sediment Survey for Mercury content in Rivers and lakes of N.W. Quebec in local areas of Indian Reserves in that Area.	1978-79	2,000		47*
Sneddon, H. Vancouver, B.C.	SSC/ASC DFE/MPE	Compilation, evaluation and preparation of chapters of mercury status report pertaining to mercury contamination in biota and human tissues in British Columbia and the Yukon.	1977	6,000	(B.55)	47
Uppal, S. Univ. of Ottawa	HWC/SBSC	Effects of Mercury Pollution on the Human Body, Livelihood and way of life of the Indian People.	1975-76	39,600		47

MINERALS (EXPLORATION, DEVELOPMENT, TECHNOLOGY, WASTES, IMPACTS) / MINERAUX (EXPLORATION, DÉVELOPPEMENT, TECHNOLOGIE, RÉSIDUS, IMPACTS)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Anderson, C.D. Dept. of Earth Sciences Univ. of Manitoba	NRCC/CNRC	Research in methods and techniques for deep mineral exploration in the Canadian Shield.	1974-75	3,975		48
Archer, Cathro and Associates Limited Vancouver, B.C.	SSC/ASC EMRC	1978, 1979 and 1980 updates to the Northern Cordillera mineral inventory.	1980	2,500	(B.86)	48
Archer, Cathro and Associates Limited Whitehorse, Y.T.	SSC/ASC EMRC	Northern Cordillera mineral inventory.	1977	12,000	(B.52)	48
Arctic Bay Council Baffin Island, N.W.T.	SSC/ASC INAC/AINC	Environmental assessment of tailings disposal system of Nanisivik Mine, Strathcona Sound, Baffin Island, Northwest Territories.	1977	19,590	(B.47)	48
Arctic Laboratories Limited Inuvik, N.W.T.	SSC/ASC INAC/AINC	Study the impact of a lead-zinc mining operation on the marine environment of Strathcona Sound, Northwest Territories.	1982	85,000	(B.112)	48
Astika, T.L. Whitehorse, Yukon	SSC/ASC EC	Literature searches related to placer mining, Beaufort Sea energy development.	1983	4,452	(B.122)	48
Barringer Research Limited Rexdale, Ont.	SSC/ASC EMRC	Geochemical analysis of water samples for uranium, fluoride and Ph in the Yukon area.	1976	21,400	(B.41)	48
B.C. Research Council Vancouver, B.C.	SSC/ASC INAC/AINC	Study of the leachability of waste rock and tailings at Anvil Mines, Yukon Territory.	1975	11,991	(B.23)	48
Berube, M.Y. Dep. des Mines et de la Metallurgie Univ. Laval	SSC/ASC EC	Etude du controle du niveau d'arsenic dans les eaux de mine.	1974	20,171	(B.15)	48

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Bondar-Clegg and Company Limited Ottawa, Ont.	SSC/ASC EMRC	Geochemical analysis of stream water samples for uranium, fluoride and pH in the Yukon Territory.	1977	21,400	(B.52)	48
Burns, B. Whitehorse, Y.T.	SSC/ASC EC	Study to assess environmental contamination as a result of placer gold mining.	1980	10,844	(B.87)	48
Bustin, R.M. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Structure and sedimentology of late Jurassic and early Cretaceous coal measures in the eastern Canadian Cordillera.	1980-81 1981-82	8,250 11,900		48
Bustin, R.M. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Coal petrography equipment.	1980-81	7,500		48
Bustin, R.M. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Structure, sedimentology, and petrology of Cretaceous and Tertiary coal measures in Western Canada.	1982-83	13,000		48
Bustin, R.M. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Structure, sedimentology, and petrology of coal measures in Western and Arctic Canada.	1983-84	24,380		48
Bustin, R.M. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Computerized data acquisition and analysis equipment.	1983-84	22,000		48
C.F. Gleeson and Associates Limited Ottawa, Ont.	SSC/ASC EMRC	Interpretation and preparation of a report on the results of a geochemical analysis of water samples in the Keno Hill area, Yukon.	1974	2,200	(B.20)	48
C.F. Gleeson and Associates Limited Ottawa, Ont.	SSC/ASC EMRC	Compilation and verification of geochemical data pertaining to Keno Hill (Yukon).	1975	2,000	(B.25)	48

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
C.F. Gleeson and Associates Limited Ottawa, Ont.	SSC/ASC EMRC	Orientation survey for uranium exploration in the Yukon.	1975	7,450	(B.28)	48
C.F. Gleeson and Associates Limited Ottawa, Ont.	SSC/ASC EMRC	Development of a report on heavy minerals in stream networks in the Keno Hill, Yukon area.	1976	4,000	(B.36)	48
C.F. Gleeson and Associates Limited Ottawa, Ont.	SSC/ASC EMRC	Report on trace element content on rock samples in Keno Hill area, Yukon.	1976	8,700	(B.44)	48
C.F. Gleeson and Associates Limited Ottawa, Ont.	SSC/ASC EMRC	Preparation of a map showing the uranium contents of stream sediments in the Keno Hill area, Yukon.	1977	3,350	(B.57)	48
C.F. Gleeson and Associates Limited Iroquois, Ont.	SSC/ASC EMRC	Analysis of geochemical data collected from the Mt. Sedgwick area, Yukon Territory.	1983	2,000	(B.124)	48
Chemex Laboratories Limited North Vancouver, B.C.	SSC/ASC EMRC	Geochemical analysis of lake sediment samples for Manitoba and the Northwest Territories.	1975	97,000	(B.29)	48
Drake, J.J. and Woo M.K. McMaster Univ.	SSC/ASC INAC/AINC	Study to model the effects of tailings on a permafrost environment.	1982 1983	89,729 119,968	(B.111) (B.124)	48
Duckworth, K. Dept. of Geology Univ. of Calgary	NSERCC/ CRSNGC	Induced polarization studies of lead zinc ores in temperate and permafrost conditions.	1980-81	4,000		48
EBA Engineering Consultants Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Evaluation of potential rock quarries in the Rocky Hills/Campbell Lake area, Northwest Territories.	1976	14,912	(B.41)	48
Emond, D. Dept. of Geology Carleton Univ.	INAC/AINC	Tin mineralization in the Mayo-McQuesten Area.	1981-82	1,000		48
English, P.J. Dept. of Geology Univ. of Alberta	INAC/AINC	The geology of gold occurrences within the metasedimentary rocks of the Yellowknife Supergroup.	1976-77	4,000		48

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Godwin, C.I. Dept. of Geological Sciences Univ. of British Columbia	INAC/AINC	To study and catalogue the lead-zinc deposits of the northern Yukon Territory and adjacent N.W.T.	1975-76	7,405		48
Hall, A.E. Dept. of Mineral Engineering Univ. of British Columbia	NSERCC/ CRSNGC	Underground mine planning for Canadian northern conditions.	1980-81 1981-82	9,000 7,800		48
Hatfield Consulting Limited North Vancouver, B.C.	SSC/ASC INAC/AINC	Study of the probable effects of disposal of mine tailings into Strathcona Sound, Northwest Territories.	1975	9,500	(B.28)	48
Hodder, R.W. Dept. of Geology Univ. of Western Ontario	INAC/AINC	Granitic rocks and associated mineral deposits of the Whitehorse map area, Yukon.	1977-78	13,781		48
Hodder, R.W. Dept. of Geology Univ. of Western Ontario	SSC/ASC INAC/AINC	Study of the igneous rocks and associated mineral deposits of the Whitehorse Copper belt.	1976	11,348	(B.40)	48
Hodder, R.W. Dept. of Geology Univ. of Western Ontario	SSC/ASC INAC/AINC	Investigation of granitic rocks and associated mineral deposits of the Whitehorse map area, Yukon Territory.	1977	13,679	(B.52)	48
Hutchinson, T.C. Dept. of Botany Univ. of Toronto	SSC/ASC INAC/AINC	Re-vegetation of northern tailings and mining areas using materials from an acid-heavy metal stressed natural Arctic area.	1976	34,670	(B.37)	48
Hutchinson, T.C. Dept. of Botany Univ. of Toronto	SSC/ASC INAC/AINC	Tailings reclamation of acidic and metal contaminated arctic sites using pre-adapted vegetation.	1977	61,912	(B.52)	48

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Interdisciplinary Systems Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Development of land use guidelines mineral exploration in the Northwest Territory and Yukon Territory.	1981	40,000	(B.103)	48
Kershaw, K.A. Dept. of Biology McMaster Univ.	SSC/ASC INAC/AINC	Conduct a study of the pattern of uranium and associated radio-isotopes in lichen head, associated with the uranium deposits near Baker Lake, Northwest Territories, prior to mining operations.	1982 1983	96,000 51,120	(B.111) (B.123)	48 48
Laznicka, P. Dept. of Earth Sciences Univ. of Manitoba	INAC/AINC	Metallogenic studies in the Proterozoic belt of copper mineralization, Ogilvie and Wernecke Mountains, Yukon and adjacent N.W.T.	1976-77	6,672		48
Leduc, G. Dept. of Biological Sciences Sir. George Williams Univ.	SSC/ASC INAC/AINC	A toxicity study of pollutants associated with northern mining operations.	1974	30,261	(B.16)	48
Leduc, G. Dept. of Biological Sciences Concordia Univ.	INAC/AINC	Toxicity studies of arsenic and cyanide associated with northern mining operations.	1975-76	35,555		48
Leduc, G. Dept. of Biological Sciences Concordia Univ.	SSC/ASC INAC/AINC	Toxicity studies of arsenic and cyanide associated with northern mining operations.	1976	45,506	(B.39)	48
Marshall Macklin Monaghan Limited Don Mills, Ont.	SSC/ASC EMRC	Geochemical lake sediment and water survey in Ontario, Saskatchewan and Northwest Territories.	1977	282,097	(B.51)	48
Miller, R. Dept. of Geology Univ. of Alberta	INAC/AINC	Comparative study of uranium deposits in the N.W.T.	1979-80	6,000		48
Mortenson, J. Dept. of Geology Univ. of British Columbia	INAC/AINC	Geology study and reports on the MH massive sulphide deposit in Pelly Mountains, Yukon.	1979-80	4,500		48
Morton, R.D. Dept. of Geology Univ. of Alberta	NRCC/CNRC	Studies on uraniferous deposits in Saskatchewan and the NW Territories.	1974-75 1975-76	9,700 11,065		48

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Morton, R.D. Dept. of Geology Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Studies on the nature and origin of uranium deposits in northern and western Canada.	1976-77 1977-78 1978-79	11,500 12,466 13,214		48
Osler, T.R. Whitehorse, Yuk.	SSC/ASC EC	Study of mercury usage in placer mining operations in the Yukon Territory.	1982	26,990	(B.112)	48
Rust, B.R. Dept. of Geology Univ. of Ottawa	NSERCC/ CRSNGC	Studies of alluvial sedimentation in relation to coal deposits.	1982-83 1983-84	20,000 21,200		48
Sinclair, A.J. Dept. of Geological Sciences Univ. of British Columbia	NRCC/CNRC	Geostatistics and mineral deposits in the Canadian Cordillera.	1974-75	7,000		48
Sinclair, A.J. Dept. of Geological Sciences Univ. of British Columbia	SSC/ASC INAC/AINC	Study on the genesis of the Clinton Creek, Yukon Territory, ultramafic body and associated chrysotile deposits and quartz-carbonate alteration.	1975	7,290	(B.28)	48
Sinclair, A.J. Dept. of Geological Sciences Univ. of British Columbia	NRCC/CNRC	Mineral deposits in the Canadian Cordillera - geology and geostatistics.	1975-76	7,315		48
Sinclair, A.J. Dept. of Geological Sciences Univ. of British Columbia	INAC/AINC	Study of the Clinton Creek ultrabasic pluton and associated asbestos deposit, Yukon.	1976-77	10,357		48
Sinclair, A.J. Dept. of Geological Sciences Univ. of British Columbia	NRCC/CNRC	Mineral deposits and metallogeny in the canadian cordillera.	1976-77 1977-78 1978-79	8,000 8,672 9,192		48 48

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Sinclair, A.J. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Mineral deposits of the Canadian Cordillera - rock geochemistry, geostatistics and genetic models.	1979-80 1980-81 1981-82	10,000 10,980 12,078		48
Sinclair, A.J. Dept. of Geological Sciences Univ. of British Columbia	NSERCC/ CRSNGC	Genetic models for gold deposits in the Canadian Cordillera.	1982-83 1983-84	16,000 16,960		48
Spooner, E.T.C. Dept. of Geology Univ. of Toronto	EMRC	Tin mineralization in Nova Scotia and the Yukon.	1980-81	12,100		48
Spooner, E.T.C. Dept. of Geology Univ. of Toronto	EMRC	Tin and tungsten mineralization in Nova Scotia and the Yukon Territory.	1981-82	10,000		48
Svoboda, J. Dept. of Botany Univ. of Toronto	SSC/ASC INAC/AINC	Survey of the Keewatin uranium mineralization areas with respect to natural occurrence of radionuclides in vegetation, soils and sediments - phase II.	1982	71,638	(B.111)	48
Svoboda, J. Dept. of Botany Univ. of Toronto	SSC/ASC INAC/AINC	Phase III - Survey and data analysis of the Keewatin uranium mineralization areas with respect to naturally-occurring radionuclides in vegetation, soils and sediments.	1983	40,558	(B.124)	48
Svoboda, J. and Taylor, H.W. Dept. of Botany and Dept. of Physics Univ. of Toronto	SSC/ASC INAC/AINC	Survey of the Keewatin uranium mineralization areas with respect to natural occurrence of radionuclides in vegetation, soils and sediments.	1981	53,000	(B.101)	48
Tazcienski, W.E. Dep. de Genie geologique Ecole Polytechnique Univ. de Montreal	INAC/AINC	Microprobe and field examination of minerals from sunset showings in Pelly Mountains, Yukon.	1979-80	2,963		48
Triggs, Woolett and Associates Limited Edmonton, Alta.	SSC/ASC EMRC	Geochemical lake sediment and water survey in Manitoba and the Northwest Territories.	1975 1976	298,000 312,000	(B.24) (B.39)	48

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
We Healdath Environmental and Recreational Consultants Limited Victoria, B.C.	SSC/ASC EMRC	Preparation and evaluation of the mineral deposit land use maps of Yukon Territory and British Columbia.	1975	35,040	(B.24)	48
Woo, M.K. Dept. of Geography McMaster Univ.	INAC/AINC	Modelling the effects of uranium mining tailings on a permafrost environment.	1981-82 1983-84	50,000 110,000		48
Young, G.M. Dept. of Geology Univ. of Western Ontario	SSC/ASC INAC/AINC	Sedimentology, stratigraphy and copper mineralization of the Little Dal, Redstone River and Coppercap formations, MacKenzie Mountains, Northwest Territories.	1977	9,818	(B.52)	48
Young, G.M. Dept. of Geology Univ. of Western Ontario	INAC/AINC	Iron formation in the Rapitan Group, Yukon and Northwest Territories.	1977-78	15,469		48
Young, G.M. Dept. of Geology Univ. of Western Ontario	SSC/ASC INAC/AINC	Determination of the nature and origin of the iron-formation in the late Proterozoic Rapitan Group, Yukon and Northwest Territories.	1977	14,869	(B.52)	48
ZI Consulting Limited Cochrane, Alta.	SSC/ASC EMRC	Resource evaluation and exploration play documentation of selected plays in Western and Arctic Canada.	1981	41,000	(B.100)	48

MONITORING (GENERAL) / SURVEILLANCE (GENERAL)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC EC	Application of Beaufort Sea environmental prediction techniques for an observational network test system.	1976	15,649	(B.41)	49
Bourque, D.A. Saint-Jean, Que.	SSC/ASC EC	Testing of the Beaufort Sea observational networks.	1974	14,000	(B.19)	49
Cheme: Labs Limited North Vancouver, B.C.	SSC/ASC EC	Sampling and analysis of receiving waters and effluents in British Columbia and the Yukon in support of various surveys or routine monitoring programs.	1974	46,875	(B.16)	49
Cordes, L.D. Dept. of Geography Univ. of Calgary	INAC/AINC	Vegetational monitoring study, Wood Buffalo National Park.	1974-75 1975-76 1976-77 1977-78	10,000 17,600 19,100 23,255		49
Dembicki, H. Dept. of Community Planning Univ. of British Columbia	INAC/AINC	Norman Wells project monitoring.	1982-83	9,895		49
Forester, A. Dept. of Environmental Studies Univ. of Toronto	EC	Development of a biological monitoring program using clams as indicators of the bioavailability of toxic heavy metals in shield lakes subject to environmental acidification.	1980-81	86,000		49
Kroeker, D.W. Winnipeg, Man.	SSC/ASC DFO/MPO	Prepare samples and date for the Nanisivik monitoring program.	1982	2,060	(B.110)	49
LGL Limited Sidney, B.C.	SSC/ASC INAC/AINC	Application of adaptive environmental assessment to the design of a program of environmental research and monitoring in relation to hydrocarbon development in the Beaufort Sea.	1983	390,393	(B.123)	49

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
North Star Employment Services Whitehorse, Yukon	SSC/ASC EC	Stream monitoring at Placer Mines in the Yukon and tabulation of baseline inventory data from the Beaufort Sea.	1982	12,685	(B.117)	49
Northern Natural Resource Services Limited Vancouver, B.C.	SSC/ASC DFE/MPE	Evaluation of sampling locations, capture methods and data recording used in Alaska Highway Gas Pipeline Monitoring Study.	1978	4,990	(B.64)	49

NATIVE PEOPLE AND ORGANIZATIONS / AUTOCHTONES ET ORGANISATIONS AUTOCHTONES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Brooke, L. Makivik Corp.	SSHRCC/ CRSHC	Québec workshop on Native issues.	1983-84	14,950		50*
Burshtyn, H. Dept. of Anthropology and Sociology Carleton Univ.	INAC/AINC	Development of an inventory of machine-readable data re: Canada's native people.	1981-82	2,500		50
Carleton Univ.	SSHRCC/ CRSHC	Reflections of Native Americans: A Conference on Indian and Inuit Images in Films.	1983-84	2,994		50
Cohen, F. Dalhousie Univ.	SSHRCC/ CRSHC	Workshop on Native issues.	1983-84	12,754		50
Freeman, M. Univ. of Alberta	SSHRCC/ CRSHC	National symposium on community-based research on Native studies.	1983-84	3,500		50
Kemp. B. McGill Univ.	INAC/AINC	To plan and organize a workshop on northern population problems.	1976-77	2,500		50*
Kutluk, T. Inummarilirjiit Inuit Cultural Institute	SSHRCC/ CRSHC	Eskimo Point Workshop: Native issues.	1983-84	20,815		50
Lussier, A. Brandon Univ.	SSHRCC/ CRSHC	Planning a new program on Native issues.	1983-84	6,449		50
McCue, H. Trent Univ.	SSHRCC/ CRSHC	Ontario Workshop: task force on Native Affairs.	1983-84	1,060		50
Morris, C. Lethbridge Univ.	SSHRCC/ CRSHC	Workshop on Native issues.	1983-84	3,368		50
Nimpkish Indian Band Alert Bay, B.C.	SSC/ASC DFO/MPO	Native participation for the Department of Fisheries and Oceans in the Nimpkish River watershed.	1983	24,140	(B.126)	50

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Redbird, D. Ottawa	CC/CAC	90-minute, 16mm documentary entitled Native Council of Canada Film Project.	1977-78	6,000	50
Salter, L., Basil, L. and Fraser, S.	SSHRCC/ CRSHC	Workshop on Native issues.	1983-84	8,800	50
Stonechild, B. Dept. of Indian Studies Univ. of Regina	SSHRCC/ CRSHC	National Indian/Native studies conference, Regina.	1983-84	6,000	50

NATIVE WILDLIFE HARVESTING / RÉCOLTE AUTOCHTONE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctic Biological Consultants Pinawa, Man.	SSC/ASC TC	Gather, update and compile information on fish resources and human usage in Melville Peninsula, Southampton Island area, for the northern land use information series.	1983	55,000	(B.124)	51
Bodden, K. Dept. of Geography Univ. of Alberta	INAC/AINC	The economic use by native peoples of the resources of the Slave River Delta.	1977-78	1,989		51
Interdisciplinary Systems Limited Winnipeg, Man.	SSC/ASC INAC/AINC	Study of the effect of resource exploration and development on hunting and trapping on the traditional economy of the Inuit in the Baker Lake area.	1977	126,086	(B.52)	51
Keewatin Wildlife Federation Rankin Inlet, N.W.T.	SSC/ASC INAC/AINC	Conduct a wildlife harvest study in the Keewatin region, Northwest Territories.	1982	289,847	(B.109)	51
Makivik Corporation Fort-Chimo, Que.	SSC/ASC DFO/MPO	Studies on the distribution, population size, stock identity and Inuit use of the white whales in Northern Quebec.	1980	215,882	(B.87)	51*
NITAO Limitee Outremont, Qué.	SSC/ASC DFE/MPE	Étude des liens entre les connaissances nécessaires à la gestion du régime Chasse, Pêche et Trappage de la Convention de la Baie James et du Nord Québécois et l'état actuel des connaissances et données disponibles.	1979	2,500	(B.73)	51*

NORTHERN RESEARCH, METHODOLOGIES, BIBLIOGRAPHIES / RECHERCHE NORDIQUE, MÉTHODOLOGIES, BIBLIOGRAPHIES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Fall 1980 Arctic tests aboard CCGS Louis S. St. Laurent.	1980	131,000	(B.93)	52
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Installation of instruments for summer trials, CCGS Louis S. St. Laurent.	1980	110,200	(B.93)	52
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	MV Arctic scientific evaluation project - 1981 season data collection, reduction, and preliminary analysis for the second two-and-a-half Arctic voyages.	1981	77,684	(B.101)	52
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Consulting, advisory and logistic support services - M.V. Arctic 1982 R&D Program.	1982	37,518	(B.113)	52
Arctic: Journal of the Arctic Institute of North America	NRCC/CNRC NSERCC/ CRSNGC	Scientific Publications Grants/Subventions à des publications scientifiques.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	11,000 12,000 12,000 12,000 8,800 6,000 12,000 14,000 37,000 12,500		52
Arctic Institute of North America Montreal, Que.	NRCC/CNRC	General Promotion Grants/Subventions à des activités spéciales.	1974	70,038		52
Arctic Research Establishment Pond Inlet, N.W.T.	SSC/ASC DFO/MPO	Purchase of data collected and/or processed at the Arctic Research Establishment, Pond Inlet between April 1 and July 15, 1981.	1982	39,993	(B.107)	52
Association of Canadian Univ. for Northern Studies	SSHRCC/ CRSHC	Publication of "Northern Values" papers.	1983-84	2,000		52

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Begg, R.W. Institute for Northern Studies Univ. of Saskatchewan	INAC/AINC	To assist in the organization of a formal and continuing association of university groups across Canada with special interests in Northern research.	1975-76	10,000		52
Begg, R.W. Institute for Northern Studies Univ. of Saskatchewan	INAC/AINC	To assist the Institute for Northern Studies in organizing the 6th Canadian Universities Northern Science (Training) Conference at Rankin Inlet during February, 1976.	1975-76	14,000		52
Bengtsson, L. Dept. of Civil Engineering McMaster Univ.	NSERCC/ CRSNGC	Schreyer Fellowships/Bourses Schreyer: Northern research projects/Projets de recherche relatifs au Nord.	1982-83	20,400		52
Canadian Arctic Resources Committee	CC/CAC	Second national colloquium on the people, resources and environment north of 60°.	1977-78	3,000		52
Carleton Univ.	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	8,000 10,000 15,000 20,000 24,500 43,000		52
Childerhose, R.J. Victoria, B.C.	SSC/ASC EC	Preparation of material for Beaufort Sea technical, scientific and overview reports.	1975	40,700	(B.27)	52
Ecole Polytechnique	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	10,000 10,000 10,500 12,000 15,000 18,000 26,000 28,500 30,000 28,000		52*
Études/Inuit/Studies	SSHRCC/ CRSHC	Aid to Scholarly Publication/ Aide à l'édition savante.	1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	3,362 5,512 7,439 6,709 6,709 6,709		52

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Fenco Consultants Limited Calgary, Alta.	SSC/ASC TC	MV "Arctic" scientific evaluation project - 1981 season data collection, reduction, and preliminary analysis for the first two-and-a-half voyages and special initial voyages tests and trials.	1981	163,167	(B.100)	52
Fjeilberg, A. Dept. of Entomology Pacific Forest Research Center Environment Canada	NSERCC/ CRSNGC	Schreyer Fellowships/Bourses Schreyer Northern research projects/Projets de recherche relatifs au Nord.	1982-83	20,400		52
Garry T. Hunter and Associates Limited Islington, Ont.	SSC/ASC DFE/MPE	Evaluation of existing aerial photography and to establish task objectives for a related Arctic project.	1979	10,000	(B.70)	52
German and Milne Incorporated Montreal, Que.	SSC/ASC TC	M.V. Arctic Scientific Evaluation project - data gathering, data reduction and preliminary analysis and system maintenance during the first Arctic operational season.	1978	176,658	(B.66)	52
Heft, B. Beaconsfield, Que.	SSC/ASC EC	Preparation of inter-library loans of scientific texts for the Arctic Biological Station.	1974	1,725	(B.17)	52
Helle, E.S. Dept. of Biology Arctic Biological Station Fisheries and Oceans Canada	NSERCC/ CRSNGC	Schreyer Fellowships/Bourses Schreyer: Northern research projects/Projets de recherche relatifs au Nord.	1982-83	20,400		52
Helgason, J. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Schreyer Fellowships/Bourses Schreyer: Northern research projects/Projets de recherche relatifs au Nord.	1982-83	20,400		52
Hoot Productions Limited Victoria, B.C.	SSC/ASC DFO/MPO	Co-ordination and publication of a summary and user's guide and brochure for the Arctic marine data compilation and appraisal series.	1983	8,600	(B.120)	52
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EMRC	Preparation of the Beaufort Sea experiment ground truth data report.	1981	3,998	(B.96)	52

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Interprovincial Engineering Limited Halifax, N.S.	SSC/ASC DFO/MPO	Study to examine the requirements of an Arctic survey launch.	1981	9,445	(B.105)	52
Irving, W.C., et al. Univ. of Toronto	CC/CAC SSHRCC/ CRSHC	Northern Yukon Research Program.	1975-76 1976-77 1977-78 1978-79 1979-80	142,547 162,155 173,494 187,228 202,532		52
Jamieson, R.S. Boreal Institute for Northern Studies Univ. of Alberta	EC	Referencing of documents pertaining to the Mackenzie River Basin.	1977-78	10,000		52
Kemp. B. McGill Univ.	INAC/AINC	To plan and organize a workshop on northern population problems.	1976-77	2,500		52
Levere T. Univ. of Toronto	SSHRCC/ CRSHC	Science in the Canadian Arctic: I: 1818-1920.	1983-84	7,560		52
McGill Univ.	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	27,500 30,000 31,000 35,000 35,000 35,000 37,500 41,000 46,500 50,500		52*
McGill Univ.	EC	Logistic support for field camp in Yukon.	1978-79	1,000		52
McMaster Univ.	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	12,000 14,000 15,000 15,000 15,000 17,000 20,000 20,000 30,500 30,500		52

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT	NO./ NO
Memorial Univ. of Newfoundland	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	15,000	52*
			1975-76	17,500	
			1976-77	17,500	
			1977-78	25,000	
			1978-79	26,000	
			1979-80	26,000	
			1980-81	30,000	
			1981-82	30,000	
			1982-83	28,000	
			1983-84	34,000	
Millard, P., Stewart, L., and Harris, R. Univ. of Saskatchewan	SSHRCC/ CRSHC	Edition of Roger North's writings on science.	1982-83	2,073	52
Musk-Ox (The): A Journal on the North	CC/CAC SSHRCC/ CRSHC	Aid to Scholarly Publication/ Aide à l'edition savante.	1974-75	2,128	52
			1975-76	2,487	
			1976-77	3,616	
			1977-78	10,016	
			1978-79	13,114	
			1979-80	12,802	
			1980-81	10,621	
			1981-82	16,112	
			1982-83	16,112	
			1983-84	17,884	
Ostergaard, P. Univ. of British Columbia	INAC/AINC	Prepare an addendum to his report on the City of Yellowknife.	1976-77	700	52
Polar Oceans	NRCC/CNRC	Scientific Publication Grants/Subventions à des publications scientifiques.	1977-78	2,500	52
Queen's Univ. at Kingston	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1977-78	7,000	52
			1978-79	7,000	
			1979-80	5,000	
			1981-82	11,000	
			1982-83	18,000	
			1983-84	22,000	

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Recherches amerindiennes au Quebec	CC/CAC SSHRCC/ CRSHC	Aid to scholarly/Aide à l'édition savante.	1974-75 1975-76 1980-81 1981-82 1982-83 1983-84	5,145 5,145 5,750 6,225 6,591 7,483	52*
Ryerson Polytechnical Institute	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1983-84	5,000	52
Schledermann, P. Dept. of Archaeology Univ. of Calgary	NSERCC/ CRSNGC	Support for the Kluane Lake Research Station, the Arctic Institute of North America of the University of Calgary.	1982-83	53,500	52
Schledermann, P. et al. Dept. of Archaeology Univ. of Calgary et al.	NSERCC/ CRSNGC	Kluane Lake Research Station.	1983-84	58,300	52
Simon Fraser Univ.	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1983-84	2,300	52
Stecher, O. Dep. de Geologie Univ. de Montreal	NSERCC/ CRSNGC	Schreyer Fellowships/Bourses Schreyer Northern research projects/Projets de recherche relatifs au Nord.	1982-83	20,400	52
Symposium on Scientific Studies on Hudson/ James Bay Univ. of Guelph - April 1981	NSERCC/ CRSNGC	Conference Grants/Subventions pour conférences.	1981-82	3,386	52*
Trent Univ.	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientique dans le Nord.	1979-80 1980-81 1981-82 1982-83 1983-84	8,000 5,000 8,000 13,000 13,000	52

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Univ. de Montréal	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	8,000	52*
			1975-76	12,000	
			1976-77	12,500	
			1977-78	13,000	
			1978-79	13,000	
			1979-80	10,000	
			1980-81	15,000	
			1981-82	13,000	
			1982-83	21,500	
			1983-84	21,500	
Univ. du Quebec a Chicoutimi	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	15,000	52*
			1975-76	17,000	
			1976-77	18,000	
			1977-78	20,000	
			1978-79	22,000	
			1979-80	25,000	
			1980-81	23,000	
			1981-82	21,000	
			1982-83	28,000	
			1983-84	23,700	
Univ. du Quebec a Trois Rivieres	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1981-82	10,500	52*
			1982-83	16,000	
			1983-84	19,000	
Univ. Laval	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	37,000	52*
			1975-76	38,500	
			1976-77	39,500	
			1977-78	40,000	
			1978-79	37,000	
			1979-80	32,000	
			1980-81	38,000	
			1981-82	44,500	
			1982-83	50,500	
			1983-84	57,000	
Univ. of Alberta	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	20,000	52
			1975-76	35,000	
			1976-77	36,000	
			1977-78	37,000	
			1978-79	38,000	
			1979-80	35,000	
			1980-81	33,000	
			1981-82	36,000	
			1982-83	37,000	
			1983-84	43,000	

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Univ. of Alberta Boreal Institute for Northern Studies	INAC/AINC	To assist in the expenses of the 6th Canadian Universities Northern Science Training Grants Conference.	1976-77	15,000	52
Univ. of British Columbia	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	37,000 32,000 33,000 34,000 33,000 28,000 26,000 29,000 29,000 29,000	52
Univ. of Calgary	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1979-80 1980-81 1981-82 1982-83 1983-84	5,000 10,000 16,000 21,000 28,000	52
Univ. of Guelph	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1983-84	15,000	52
Univ. of Manitoba	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	37,000 38,500 39,500 40,000 35,000 31,000 31,000 36,000 41,500 41,500	52
Univ. of Manitoba	INAC/AINC	To organize the final organizing conference of the new association of universities involved in northern studies.	1976-77	21,650	52
Univ. of New Brunswick	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1983-84	10,000	52

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Univ. of Ottawa	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	12,500	52
			1975-76	13,000	
			1976-77	14,000	
			1977-78	15,000	
			1978-79	15,000	
			1979-80	15,000	
			1980-81	21,000	
			1981-82	22,500	
			1982-83	27,000	
			1983-84	29,000	
Univ. of Saskatchewan	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	37,000	52
			1975-76	38,500	
			1976-77	39,500	
			1977-78	40,000	
			1978-79	38,000	
			1979-80	36,000	
			1980-81	32,500	
			1981-82	40,000	
			1982-83	39,000	
			1983-84	40,000	
Univ. of Toronto	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	20,000	52
			1975-76	17,000	
			1976-77	17,000	
			1977-78	18,000	
			1978-79	22,000	
			1979-80	25,000	
			1980-81	22,000	
			1981-82	28,000	
			1982-83	28,000	
			1983-84	46,000	
Univ. of Waterloo	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1978-79	6,000	52
			1979-80	8,000	
			1980-81	8,000	
			1981-82	16,000	
			1982-83	21,000	
			1983-84	23,000	

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Univ. of Western Ontario	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	12,000 12,000 13,000 14,000 13,000 11,000 11,000 16,000 22,000 24,000		52
Univ. of Windsor	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1979-80 1980-81 1981-82 1982-83 1983-84	8,000 12,000 16,000 23,000 24,000		52
West, W.A. Edmonton, Alta.	SSC/ASC EC	Development of information procedures and mechanisms for Environment Canada, Western and Northern region.	1975	15,000	(B.28)	52
Woo, M.K. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	To spend leave at: 1) Fairbanks, Alaska, at the Institute of Water Resources, University of Alaska 2) Boulder, Colorado, at the Institute of Arctic and Alpine Research, University of Colorado.	1979-80	500		52
York Univ.	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	7,500 9,000 12,000 12,000 9,000 16,000 22,000 34,000		52

OCEANOGRAPHY (PHYSICAL) / OCÉANOGRAPHIE (PHYSIQUE)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Anderson, L. Dartmouth, N.S.	SSC/ASC DFO/MPO	Study of the alkalinity-total carbonate measurements in Hudson Strait and Northern Hudson Bay.	1983	3,000	(B.122)	53*
Arctic Laboratories Limited Inuvik, N.W.T.	SSC/ASC DFO/MPO	Compilation and appraisal of existing chemical oceanographic and related data from the Beaufort Sea.	1981	13,575	(B.96)	53
Arctic Laboratories Limited Inuvik, N.W.T.	SSC/ASC DFO/MPO	A physical/chemical mass balance study for the Beaufort Sea.	1981	6,020	(B.103)	53
Arctic Laboratories Limited Sidney, B.C.	SSC/ASC DFO/MPO	Compilation and appraisal of existing chemical oceanographic data in the Northwest passage.	1982	17,550	(B.108)	53
Arctic Laboratories Limited Sidney, B.C.	SSC/ASC DFO/MPO	Preparation of Beaufort Sea and Northwest passage chemical oceanographic data for data archiving.	1983	25,100	(B.120)	53
Arctic Laboratories Limited Sidney, B.C.	SSC/ASC DFO/MPO	Collection of salinity, temperature and suspended sediment concentration data in the Canadian Beaufort Sea.	1983	46,706	(B.125)	53
Arctic Laboratories Limited Sidney, B.C.	SSC/ASC DFO/MPO	Compilation of existing chemical oceanographic data sets for the Canadian west coast offshore waters, Georgia Strait/Juan de Fuca Strait, Canada Basin and Arctic Ocean.	1983	53,120	(B.126)	53
Arctic Research Establishment Pond Inlet, N.W.T.	SSC/ASC DFO/MPO	Compilation of oceanographic ice and atmospheric data collected at Pond Inlet, Northwest Territories.	1982	19,000	(B.108)	53
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFE/MPE	Deep-water blowout trajectory models for the Lancaster Sound region.	1978	23,859	(B.65)	53
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Compilation and appraisal of existing physical oceanographic data in the South-east Beaufort Sea.	1980	13,827	(B.93)	53

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Compilation and analysis of physical oceanographic data in the channels of the Canadian Arctic Islands.	1981	7,887	(B.96)	53
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Compilation and appraisal of existing physical oceanographic data in Baffin Bay and the channels of Ellesmere Island.	1981	22,049	(B.105)	53
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Synoptic aircraft based oceanographic survey of the Arctic Archipelago.	1982	128,894	(B.107)	53
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Compilation of arctic physical and chemical oceanographic data reports.	1982	46,772	(B.108)	53
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Preparation and reformat of Beaufort Sea physical oceanographic data for data archiving.	1983	25,624	(B.120)	53
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Continuation of a synoptic aircraft based oceanographic survey in the Arctic Archipelago.	1983	113,593	(B.121)	53
Arctic Sciences Limited Sidney, B.C.	SSC/ASC EMRC	Quantitative evaluation of suspended sediment transport in Canadian Beaufort Sea.	1983	29,995	(B.125)	53
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Compilation and appraisal of existing physical oceanographic data in the Canadian basin of the Arctic Ocean.	1983	39,988	(B.127)	53
Armstrong, F.A.J. Winnipeg, Man.	SSC/ASC DFO/MPO	Presentation and report on high quality analysis of Arctic marine and brackish waters.	1982	1,750	(B.116)	53
Ashton, H. Nanaimo, B.C.	SSC/ASC DFO/MPO	Oceanographic observations aboard CSS Parizeau.	1983	1,540	(B.126)	53
Astis Investments Brampton, Ont.	SSC/ASC DFO/MPO	Three-dimensional model development of steady state circulation and salinity distribution in Barrow Strait.	1982	4,000	(B.107)	53
Barrodale Computing Services Limited Victoria, B.C.	SSC/ASC DFO/MPO	Statistical analysis of survey data in the Beaufort Sea.	1982	6,000	(B.108)	53
Beaumont, C. Dept. of Oceanography Dalhousie Univ. Halifax, N.S.	SSC/ASC EMRC	Study of the response to sediment loading in Sverdrup Basin.	1977	3,983	(B.46)	53

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Bureau d'etudes industrielles et de cooperation de l'Institut français du petrole Reuil-Malmaison, France	SSC/ASC EMRC	Fabrication de mosaiques sur la mer de Beaufort à partir d'enregistrements obtenus, en 1975, par sonar à balayage lateral.	1975 1976	19,600 16,481	(B.23) (B.37)	53
Camarine Consulting Limited West Vancouver, B.C.	SSC/ASC EC	Analysis and interpretation of oceanographic data collected during Cancolim II cruises in the Beaufort Sea in 1951 and 1952.	1975	15,000	(B.24)	53
Canplan Oceanology Limited Halifax, N.S.	SSC/ASC EC	A literature survey of chemical oceanographic studies carried out in the Arctic.	1975	3,980	(B.33)	53
Case Existological Laboratories Limited Ottawa, Ont.	SSC/ASC EC	Provision of professional services to study the physical oceanography of the southern Beaufort Sea.	1974	27,566	(B.16)	53
Case Existological Laboratories Limited Ottawa, Ont.	SSC/ASC EC	Amendment to a contract to study the physical oceanography of the Southern Beaufort Sea to incorporate baseline studies of marine biological productivity, geophysical studies, report sightings of marine animals and record and report meteorological observations.	1974	13,295	(B.18)	53
Case Existological Laboratories Limited Victoria, B.C.	SSC/ASC EC	Physical oceanography study of the Beaufort Sea.	1975	9,823	(B.28)	53
Coldberg, H. Vancouver, B.C.	SSC/ASC DFO/MPO	Collection of oceanographic data aboard CSS Parizeau.	1981	1,200	(B.104)	53
Croal, J.P. Ottawa, Ont.	SSC/ASC EC	Establish and maintain a program of oceanographic observations from winter ice cover in James Bay.	1974	25,000	(B.11)	53*
Croal, J.P. Ottawa, Ont.	SSC/ASC EC	A winter oceanographic survey of James Bay.	1974	18,000	(B.19)	53*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Dames and Moore Consulting Engineers Toronto, Ont.	SSC/ASC EC	Amendment to a contract for the development of a hindcast of storm waves for the Beaufort Sea using meteorological data to include additional analysis.	1975	2,200	(B.32)	53
Dobrocky Seatech Limited Victoria, B.C.	SSC/ASC EC	A survey of the near-surface currents in the open water area of the Beaufort Sea between Baillie Island and Herschel Island, from shore to the edge of the pack ice.	1974	18,119	(B.16)	53
Dobrocky Seatech Limited Victoria, B.C.	SSC/ASC EC	Amendment to a contract for the Beaufort Sea near-surface current survey to include interpretation and provide assistance in the preparation of the comprehensive summary report on the physical oceanography of the Beaufort Sea.	1974	16,800	(B.20)	53
Dobrocky Seatech Limited Victoria, B.C.	SSC/ASC EC	Amendment to a contract for the Beaufort Sea near-surface current survey to include the second (1975) field season.	1975	6,429	(B.28)	53
Dobrocky Seatech Limited Sidney, B.C.	SSC/ASC DFO/MPO	Analysis and interpretation of oceanographic data from Bridport Inlet, Melville Island, Northwest Territories.	1982	14,000	(B.114)	53
Dryssen, D. Geotborg, Sweden	SSC/ASC DFO/MPO	Comparison of alkalinity-total carbonate measurements from Canadian Arctic regions and north of Scandinavia.	1980	3,500	(B.89)	53
Dunbar, M.J. Office of Industrial Research McGill Univ.	INAC/AINC	Biological and oceanographic study of the Eastern Arctic Marine Region.	1977-78	18,574		53
Ellis, D.V. Dept. of Biology Univ. of Victoria	NRCC/CNRC NSERCC/ CRSNGC	Sedimentological and oceanographic correlates with benthic faunal associations of deep fjords.	1976-77 1977-78 1978-79	6,000 6,504 6,894		53
Finlayson, D.J. Woody Point, Nfld.	SSC/ASC NDD/MDN	A tidal survey in Fury and Hecla Strait, Northwest Territories.	1976	9,685	(B.36)	53
Fissel, D. Burnaby, B.C.	SSC/ASC EC	Analysis of oceanographic field data from the Canadian Arctic Archipelago.	1976	11,684	(B.43)	53

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Idler, D.R. Dept. of Biochemistry Memorial Univ. of Newfoundland	INAC/AINC	Biological and oceanographic study of the Labrador Sea Marine Region.	1977-78	15,000		53*
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Effect of environmental changes on estuarine circulation and mixing.	1979-80 1980-81 1981-82 1982-83 1983-84	11,000 12,078 13,286 16,000 16,960		53*
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Conducting - temperature - depth profiling instrument.	1983-84	31,803		53*
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Logistic support for winter oceanographic work in Hudson Bay.	1983-84	7,420		53*
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EC	Analysis of laser data collected in the Beaufort Sea.	1980	7,539	(B.85)	53
King, M.S. Dept. of Geological Sciences Univ. of Saskatchewan	SSC/ASC EMRC	Acoustic velocity, resistivity and thermal conductivity measurements on frozen Beaufort Sea bottom core samples.	1979	2,300	(B.71)	53
Knowles, R. Dept. of Microbiology MacDonald College Ste.-Anne-de- Bellevue, Que.	SSC/ASC EC	Investigation of the spatial and seasonal variation of nitrogen fixation in Arctic marine sediments.	1974	28,500	(B.20)	53
Landry, L. Victoria, B.C.	SSC/ASC EC	Computer analysis of oceanographic data for the Beaufort Sea Project.	1976	375	(B.35)	53
Le Blond, P.H. Institute of Ocean- ography Univ. of British Columbia	NSERCC/ CRSNGC	Long waves and coastal oceanography.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81	6,900 8,775 9,000 9,756 12,000 12,420 13,637		53

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Gagnon, M.J. Halifax, N.S.	SSC/ASC DFE/MPE	Provision of analytical data on the distribution of organic matter in marine water of the eastern Arctic.	1979	450	(B.70)	53
Garry T. Hunter and Associates Limited Islington, Ont.	SSC/ASC DFO/MPO	Provision of shallow water bathymetry, Simpson Strait, Northwest Territories to the Canadian Hydrographic Service.	1980	40,000	(B.90)	53
Gibbons, J.C. Dartmouth, N.S.	SSC/ASC DFO/MPO	Carbon and nitrogen analysis of biostat and Arctic samples.	1982	5,000	(B.107)	53
Gilbert, R. Dept. of Geography Queen's Univ. at Kingston	NSERCC/ CRSNGC	Studies of the sedimentology and oceanography of Pangnirtung Fiord Baffin Island, N.W.T.	1978-79	4,000		53
Gilbert, R. Dept. of Geography Queen's Univ. at Kingston	NSERCC/ CRSNGC	Physical oceanography and marine sedimentation, Cumberland Sound, Baffin Island, N.W.T.	1979-80	5,000		53
Gilbert, R. Dept. of Geography Queen's Univ. at Kingston	NSERCC/ CRSNGC	Physical oceanography and proglacial marine sedimentation in fjords of Baffin Island, N.W.T.	1980-81	7,500		53
Graham, K.A. Queen's Univ. at Kingston	INAC/AINC	To evaluate the funding of particpants in the Beaufort Sea EARP draft guidelines hearings.	1981-82	10,000		53
Greisman, P.E. Sidney, B.C.	SSC/ASC EC	Special advisor on physical oceanography to the Beaufort Sea environmental assessment panel review.	1982	10,000	(B.115)	53
Hill, S. Victoria, B.C.	SSC/ASC DFE/MPE	Processing of oceanographic data from historical records of the ice-drift buoy program in the Beaufort Sea.	1978	3,000	(B.68)	53
Huntec ('70) Limited Scarborough, Ont.	SSC/ASC EMRC	Collection of oceanographic data using the Huntec deep tow seismic system during the cruise of the CSS Hudson June 2-14, 1981.	1981	6,156	(B.97)	53
Huntec ('70) Limited Scarborough, Ont.	SSC/ASC EMRC	Provision of a logistics co-ordinator, field technologist, Huntec equipment aboard the CSS Hudson.	1982	19,440	(B.113)	53
Huntec ('70) Limited Dartmouth, N.S.	SSC/ASC NDD/MDN	Analysis of seabed acoustic data.	1983	24,960	(B.119)	53
Hydrotechnology Limited Ottawa, Ont.	SSC/ASC EC	Provision of hindcast wave heights and statistics for Lancaster Sound 1956-78.	1980	13,660	(B.85)	53

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Le Blond, P.H. Institute of Oceanography Univ. of British Columbia	NSERCC/ CRSNGC	Ocean waves and coastal oceanography.	1981-82 1982-83 1983-84	19,000 21,945 23,262		53
Le Blond, P.H. Institute of Oceanography Univ. of British Columbia	NSERCC/ CRSNGC	Physical oceanography of Arctic Straits.	1981-82 1982-83 1983-84	32,250 37,273 40,996		53
LeBlond, P.H., Emery W.J. and Pond, G.S. Institute of Oceanography Univ. of British Columbia	NSERCC/ CRSNGC	Current meters.	1983-84	42,780		53
McCann, S.B. and Woo, M.K. Dept. of Geography McMaster Univ.	SSC/ASC EC	Hydrological investigation at Vendom Fiord, South Central Ellesmere Island.	1974	21,943	(B.16)	53
McCann, S.B. and Woo, M.K. Dept. of Geography McMaster Univ.	SSC/ASC EC	Investigations at Vendom Fiord, South Central Ellesmere Island, 1975.	1975	16,451	(B.28)	53
McCarthy, J. Halifax, N.S.	SSC/ASC EC	Study of the Labrador current.	1981	400	(B.98)	53*
McElhanney Surveying and Engineering Limited Calgary, Alta.	SSC/ASC DFO/MPO	Horizontal control survey for a planned hydrographic survey off the Yukon coast, west of Herschel Island to the Alaska border.	1983	57,360	(B.121)	53
Moore, R.M. Dept. of Oceanography Dalhousie Univ.	NSERCC/ CRSNGC	A study of the vertical distribution of selected trace metals in ocean waters.	1978-79	7,000		53

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Moore, R.M. Dept. of Oceanography Dalhousie Univ.	NSERCC/ CRSNGC	Arctic winch and sampling/equipment.	1978-79	7,945		53
Moore, R.M. Dept. of Oceanography Dalhousie Univ.	NSERCC/ CRSNGC	Trace metal marine geochemistry and Arctic hydrography.	1979-80	8,500		53
Moore, R.M. Dept. of Oceanography Dalhousie Univ.	NSERCC/ CRSNGC	A study of anthropogenic chemical tracers in the Arctic Ocean.	1980-81 1981-82 1982-83	27,000 31,192 19,493		53
Moore, R.M. Dept. of Oceanography Dalhousie Univ.	NSERCC/ CRSNGC	Trace metal marine geochemistry and chemical tracers in the Arctic Ocean.	1981-82	11,500		53
Moore, R.M. Dept. of Oceanography Dalhousie, Univ.	NSERCC/ CRSNGC	Trace element scavenging studies.	1983-84	6,000		53
Norcor Limited Yellowknife, N.W.T.	SSC/ASC DFE/MPE	Deployment and documentation of Air-Droppable Random-Access Memory (ADRAM) buoys in the Beaufort Sea.	1978	22,000	(B.59)	53
Nordco Limited St. John's, Nfld.	SSC/ASC EC	Provide a report on a methodology for the derivation of ocean current from observation of iceberg data.	1983	25,755	(B.120)	53*
Peck, G.S. Burlington, Ont.	SSC/ASC EC	Consultant and advisory services for oceanographic studies in James Bay and Hudson Bay.	1974	14,000	(B.20)	53*
Pounder, E.R. Dept. of Physics McGill Univ.	NSERCC/ CRSNGC	Physical oceanography in the Arctic.	1979-80	10,000		53
Seaconsult Marine Research Limited Vancouver, B.C.	SSC/ASC DFO/MPO	Development of accurate design wave specification in shallow water areas of the Beaufort Sea and on the Scotian Shelf near Sable Island.	1983	16,509	(B.121)	53
Seaconsult Marine Research Limited Vancouver, B.C.	SSC/ASC DFO/MPO	Review of design wave conditions in the Beaufort Sea.	1983	11,667	(B.121)	53

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Seakem Oceanography Limited Victoria, B.C.	SSC/ASC EC	Analyses of environmental samples.	1975	11,261	(B.27)	53
Seakem Oceanography Limited Victoria, B.C.	SSC/ASC EC	Oceanographic measurement in the Beaufort Sea baseline cruise.	1975	18,364	(B.27)	53
Seakem Oceanography Limited Victoria, B.C.	SSC/ASC EC	Data processing of Beaufort Sea oceanography data, correcting and deleting any errors found in the data, and modifying existing programs.	1975	3,700	(B.29)	53
Seakem Oceanography Limited Victoria, B.C.	SSC/ASC DFE/MPE	Beaufort Sea wave climate study.	1977	2,588	(B.52)	53
Seimac Limited Bedford, N.S.	SSC/ASC DFO/MPO	Develop instructions and specifications for the collection and analysis of data from 30KHZ echo sounding transducers on the CSS Baffin.	1983	8,784	(B.126)	53
Seimac Limited Bedford, N.S.	SSC/ASC EMRC	Analyse data acquired from a variety of 30 KHZ transducers installed aboard the research vessel "Baffin".	1983	21,778	(B.129)	53
Steltner Development and Manufacturing Company Limited St. Catherines, Ont.	SSC/ASC NRCC/CNRC	Acquisition of data on tide measurements at Adams Island, N.W.T.	1981	8,989	(B.103)	53
Stockbridge, K.M. McGill Univ.	INAC/AINC	Professionel divemaster, Wager Bay study.	1976-77	1,600		53
Terra Surveys Limited Ottawa, Ontario	SSC/ASC EMRC	Survey and evaluation of gravity and bathymetry in the Belcher Islands area of Hudson Bay.	1978	41,980	(B.59)	53*
Terra Surveys Limited Sidney, B.C.	SSC/ASC DFO/MPO	Arctic hydrographic survey - Bridport Inlet to Byam Martin Island, Viscount Melville Sound.	1983	658,631	(B.119)	53

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Todoroff, S. Kitchener, Ontario	SSC/ASC DFO/MPO	Continuation of three-dimensional model development of steady state circulation and salinity distribution in Barrow Strait.	1983	4,000	(B.121)	53
Unny, T.E. Dept. of Civil Engineering Univ. of Waterloo	DFO/MPO	Numerical and inverse models for determination of circulation patterns in parts of Northwest Passage in the Canadian Arctic.	1982-83	4,000		53
Wainwright Analytical and Marine Service Halifax, N.S.	SSC/ASC DFE/MPE	Shipboard sampling of chlorophyll and light irradiance experiments on board C.S.S. Hudson.	1977	1,974	(B.52)	53
Wallace, C. Brentwood Bay, B.C.	SSC/ASC EC	Collating of Beaufort Sea oceanographic and meteorological data.	1975	1,500	(B.32)	53
Wilton, R.G. Sidney, B.C.	SSC/ASC EC	Assembling and analysis of Arctic oceanographic data.	1976	19,880	(B.39)	53

OIL SPILLS (ALL ISSUES) / DÉVERSEMENT DE PÉTROLE (TOUS LES ASPECTS)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Acres Consulting Services Limited Niagara Falls, Ont.	SSC/ASC EC	Examination of gas and oil under ice.	1980	7,500	(B.83)	54
Aklavik Enterprises Aklavik, N.W.T.	SSC/ASC DFE/MPE	Participation on the AMOP Experimental Oilspill Planning Committee - part of the Arctic Marine Oilspill Program.	1978	7,750	(B.69)	54
Arctec Canada Limited Montreal, Que.	SSC/ASC EC	Evaluation of the techniques for igniting and burning spilled oil on Arctic ice - Phase 1.	1976	14,278	(B.42)	54
Arctec Canada Limited Montreal, Que.	SSC/ASC EC	Evaluation of seven harbourtype oil skimmers.	1976	43,176	(B.43)	54
Arctec Canada Limited Montreal, Que.	SSC/ASC EC	Development of innovative techniques for the immediate containment or disposal of oil from an underwater well blowout in the Beaufort Sea.	1976	46,300	(B.45)	54
Arctec Canada Limited Montreal, Que.	SSC/ASC DFE/MPE	Evaluation of oil spill recovery pumps.	1977	23,724	(B.51)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC DFE/MPE	Evaluation of small stationary-type mechanical oil recovery skimmers.	1977	47,881	(B.55)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC DFE/MPE	Study of the interaction of crude oil and natural gas with first year sea ice -- part of the Arctic Marine Oilspill Program.	1977	26,871	(B.56)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC DFE/MPE	Conceptual design of an oil recovery vehicle to operate in ice-infested water - part of the Arctic Marine Oilspill Program.	1978	74,331	(B.58)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC DFE/MPE	Development of equipment to assist in the in-situ burning of oil - part of the Arctic Marine Oil Spill Program.	1978	37,729	(B.59)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctec Canada Limited Kanata, Ont.	SSC/ASC DFE/MPE	Literature review of pumps having potential for use in oil spill cleanup.	1978	4,553	(B.64)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC DFE/MPE	Engineering evaluation of three oil recovery devices.	1978	56,075	(B.65)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC DFE/MPE	Feasibility study of air and water spray barriers for the collection, concentration and in-situ burning of spilled oil - part of the Arctic Marine Oilspill Program.	1978	47,815	(B.68)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC EC	Literature review of transfer units having potential use for oil spill cleanup.	1979	4,825	(B.78)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC EC	Study of oil under multi-year ice - Phase II.	1979	38,650	(B.79)	54
Arctec Canada Limited St. John's, Nfld.	SSC/ASC EC	Arctic skimmer/boom evaluation program.	1980	73,265	(B.83)	54
Arctec Canada Limited Calgary, Alta.	SSC/ASC TC	Oil under multi-year ice - Phase III.	1982	54,199	(B.114)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC EC	Review of modelling of behaviour of oil in and under ice.	1982	14,973	(B.108)	54
Arctec Canada Limited Kanata, Ont.	SSC/ASC EC	Study on the laser ignition of oil spills - phase I.	1983	250,000	(B.129)	54
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Oceanographic and oilspill modelling evaluation in the southeastern Beaufort Sea.	1982	31,514	(B.109)	54
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC DFE/MPE	Initial testing and adaptations of MK. I. version of the oil spill movement prediction procedure.	1977	25,000	(B.55)	54
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC DFE/MPE	Design of techniques to predict motion of oil spills in Northern Canadian waters - part of the Arctic Marine Oilspill Program (AMOP).	1978	75,049	(B.62)	54
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC EC	Operation of the Atmospheric Environment Service (AES) oil spill model in oil spill emergencies.	1979	5,009	(B.81)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Battelle Memorial Institute Columbus, Ohio, U.S.A.	SSC/ASC EC	Baffin Island oil spill project hydrocarbon chemistry - analytical component. (4th year of study)	1983	156,951	(B.127)	54
Battelle Memorial Institute Columbus, Ohio, U.S.A.	SSC/ASC INAC/AINC	Analysis of hydrocarbon content and composition of biological tissue and water samples from the 1983 Department of Indian and Northern Affairs Baffin Island Oil Spill Tank Study.	1983	28,360	(B.129)	54
Beak Consultants Limited Calgary, Alta	SSC/ASC INAC/AINC	Identification and assessment of the factors which must be taken into account in contingency planning for gas and/or oil leaks and/or spills resulting from pipeline failure, pipeline rupture or other operational malfunctions in identified potential oil or gas trunk pipeline routes in the MacKenzie Valley and Northern Yukon.	1974	34,970	(B.10)	54
Behie, L.A. Dept. of Chemical and Petroleum Engineering Univ. of Calgary	NSERCC/ CRSNGC	1) Hydrogen production from hydrogen sulphide 2) Oil removal from wastewater 3) Fluidized bed design 4) The production of pharmaceuticals in a three phase fluidized bed.	1983-84	15,476		54
Bennett Pollution Controls Limited North Vancouver, B.C.	SSC/ASC DFE/MPE	Design and development of an oil recovery vehicle (skimmer) to operate in ice-infested water - part of the Arctic Marine Oilspill Program.	1978	22,380	(B.59)	54
Bennett Pollution Controls Limited North Vancouver, B.C.	SSC/ASC DFE/MPE	Development of oil spill burning equipment - part of the Arctic Marine Oil Spill Program.	1978	37,630	(B.59)	54
Bennett Pollution Controls Limited North Vancouver, B.C.	SSC/ASC DFE/MPE	Development of a Bennett Skimmer for Arctic offshore operations - part of the Arctic Marine Oilspill Program.	1978	150,440	(B.68)	54
Berger, J. and Rogerson, A. Dept. of Zoology Univ. of Toronto	SSC/ASC EC	Study of the role of protozoa in the degradation and bio-accumulation of spilled oil fractions.	1981	6,500	(B.103)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Blanchard, L.P. Dép. de Génie chimique Univ. Laval	NRCC/CNRC NSERCC/ CRSNGC	Recherche dans le domaine des macromolécules.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	12,000 13,690 16,350 17,723 18,786 24,240 26,616 29,278 34,300 36,358		54
Blanchard, L.P. Dép. de Génie chimique Univ. Laval	NRCC/CNRC	Analyseur enthalpique différentiel avec accessoires.	1976-77	6,000		54
Blanchard, L.P. Dép. de Génie chimique Univ. Laval	NSERCC/ CRSNGC	Mechanical spectrometer.	1980-81	197,000		54
Buckmaster, H.A. Dept. of Physics Univ. of Calgary	NSERCC/ CRSNGC	Clay treatment and stabilization studies for enhanced oil recovery.	1983-84	46,000		54
CanGuard Consulting Limited North Vancouver, B.C.	SSC/ASC DFE/MPE	Collection and control of spilled oil in the aquatic environment by ultrasonic means.	1978	68,015	(B.60)	54
CanGuard Consulting Limited North Vancouver, B.C.	SSC/ASC DFE/MPE	API gravity separator dynamic trials - part of the Arctic Marine Oilspill Program.	1979	49,545	(B.71)	54
Canadian Energy Research Institute Calgary, Alta.	SSC/ASC EMRC	Engineering and economic analysis for enhanced oil recovery.	1983	140,000	(B.128)	54
Carson, W.M. Dept. of Bio-Resources Nova Scotia Technical College	NRCC/CNRC	Laboratory investigation of oil-sand properties affecting the design of mechanical beach deoilers.	1974-75 1975-76 1976-77 1977-78	5,000 4,875 5,000 5,420		54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC DFE/MPE	A scenario for a winter sub-sea oilwell blowout in the Labrador Sea -- part of the Arctic Marine Oilspill Program.	1978	54,856	(B.59)	54*
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC DFE/MPE	Participation on the AMOP Experimental Oilspill Planning Committee -- part of the Arctic Marine Oilspill Program.	1978	8,600	(B.66)	54
Chemex Labs (Alberta) Limited Calgary, Alta.	SSC/ASC DFE/MPE	Development of a reference oil for Arctic oil spill countermeasures testing.	1977	12,092	(B.52)	54
Conenco International Limited Markham, Ont.	SSC/ASC DFE/MPE	Development of portadam for containment of oil spills in the Arctic.	1978	17,590	(B.60)	54
Conenco International Limited Markham, Ont.	SSC/ASC DFE/MPE	Development of a portadam oil barrier for rivers and streams.	1978	21,950	(B.68)	54
Conway, K. Victoria, B.C.	SSC/ASC EMRC	Sediment sample analysis related to oil spill contingency planning.	1982	8,218	(B.115)	54
Costerton, J.W. and Wardlaw, N.C. Dept. of Biology Univ. of Calgary	NSERCC/ CRSNGC	Strategy to control microbial problems in water flood oil recovery operations.	1981-82 1982-83 1983-84	71,000 79,591 84,366		54
Cox, R.G. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	NSERCC/ CRSNGC	The spreading and dispersal of oil and other materials on a water-air surface.	1978-79 1980-81	14,150 16,080		54
Dames and Moore Consulting Engineers Toronto, Ont.	SSC/ASC EC	Study of the feasibility of dispersant application in the Southern Beaufort Sea.	1976	39,864	(B.42)	54
De Broisia, M. Dép. de Génie chimique Univ. de Sherbrooke	NSERCC/ CRSNGC	Mouvement des nappes d'huile.	1978-79 1979-80 1980-81	6,550 6,779 7,443		54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
De Broisia, M. Dép. de Génie chimique Univ. de Sherbrooke	NSERCC/ CRSNGC	Mouvement des nappes d'huile et déversement de gaz naturel liquéfié	1981-82 1982-83 1983-84	9,400 12,700 13,462		54
DeLeuw Cather Canada Limited Ottawa, Ont.	SSC/ASC DFE/MPE	Logistics study for a potential oil spill counter-measures operation in the Canadian Arctic - part of the Arctic Marine Oilspill Program.	1977	69,304	(B.55)	54
Desnoyers, J.E. et Saunders, J.K. Dép. de Chimie Univ. de Sherbrooke	NSERCC/ CRSNGC	Thermodynamique et dynamique de la solubilisation des huiles dans les microémulsions.	1979-80 1980-81	25,000 27,450		54
Desnoyers, J.E. et Saunders, J.K. Dép.. de Chimie Univ. de Sherbrooke	NSERCC/ CRSNGC	Utilisation des microémulsions pour l'extraction et la dispersion des huiles.	1981-82 1982-83 1983-84	68,735 74,603 77,237		54
Dick, J.G. Montreal, Que.	SSC/ASC EC	Efficiency and retentivity testing and performance of sinking agents in the removal of oil spills.	1975	568	(B.24)	54
Dick, J.G. Science Industrial Research Unit Concordia Univ.	SSC/ASC DFE/MPE	Study to develop a standard procedure for the collection of oil samples in the event of a spill incident.	1977	19,310	(B.55)	54
Dickins, D.F. Vancouver, B.C.	SSC/ASC EC	Design, fabricate, test and operate the oil discharge equipment to be used for the Baffin Island oil spill (BIOS) project.	1981	44,310	(B.98)	54
Dickins, D.F. Vancouver, B.C.	SSC/ASC EC	Baffin Island oil spill project - 1981 ice monitoring program.	1981	12,425	(B.99)	54
DMER Ltd. Scarborough, Ont.	SSC/ASC EC	General specification for the Arctic Marine Oilspill Program state-of-the-art survey review of the fate and behaviour of oil in cold climates.	1983	15,000	(B.126)	54
Dobrocky Seatech (Nfld.) Limited St. John's, Nfld.	SSC/ASC EC	Field evaluation of oil spill tracking devices.	1981	3,794	(B.104)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Doe, K.G. Dartmouth, N.S.	SSC/ASC EC	Biological and chemical assessments of oil spill dispersants.	1975 1976	12,501 13,500	(B.28) (B.38)	54
Doe, K.G. Dartmouth, N.S.	SSC/ASC DFE/MPE	Testing and evaluation of commercially available oil spill dispersants.	1977	16,347	(B.52)	54
Duncan, D.A. Winnipeg, Man.	SSC/ASC DFO/MPO	Measurement of sublethal effects of oil and oil/ dispersant mixtures on larval fish.	1983	12,000	(B.128)	54
Energetex Engineering Waterloo, Ont.	SSC/ASC DFE/MPE	Testing of air-deployable incendiary device for igniting oil on water - part of the Arctic Marine Oilspill Program.	1977	35,908	(B.56)	54
Energetex Engineering Waterloo, Ont.	SSC/ASC DFE/MPE	Development of a continuously-burning wicking device for burning oil slicks - part of the Arctic Marine Oilspill Program.	1978	69,540	(B.59)	54
Energetex Engineering Waterloo, Ont.	SSC/ASC DFE/MPE	Evaluation of the combustibility and other physical and chemical properties of aged oils - part of the Arctic Marine Oilspill Program.	1978	42,672	(B.67)	54
Energetex Engineering Waterloo, Ont.	SSC/ASC DFE/MPE	Performance trials for an air portable oiled-debris pit incinerator - part of the Arctic Marine Oilspill Program.	1978	9,900	(B.69)	54
Energetex Engineering Waterloo, Ont.	SSC/ASC EC	In-situ combustion: an oil spill countermeasure for Arctic shorelines.	1980	41,468	(B.83)	54
Energy Resources Company Incorporated Cambridge, Massachusetts, USA	SSC/ASC EC	Baffin Island oil spill project hydrocarbon chemistry - analytical component - third year of study.	1982	207,348	(B.116)	54
Energy Resources Company Incorporated Cambridge, Massachusetts, USA	SSC/ASC INAC/AINC	Analysis of hydrocarbon content and composition in biological tissues from the Department of Indian and Northern Development 1982 tank study.	1982	7,200	(B.117)	54
Enviroclean London, Ont.	SSC/ASC EC	Selection criteria and laboratory evaluation of oil spill sorbents update III.	1982	13,400	(B.116)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Environmental Applications Group Limited Toronto, Ont.	SSC/ASC DFE/MPE	Protection and clean-up strategies for the shoreline of the southern Beaufort Sea - part of the Arctic Marine Oilspill Program.	1978	44,380	(B.68)	54
Environmental Applications Group Limited Toronto, Ont.	SSC/ASC EC	Modification to Atmospheric Environment Service oil spill scenario model to include spatially varying wind input data.	1983	20,000	(B.120)	54
ESL Environmental Sciences Limited Vancouver, B.C.	SSC/ASC EC	Study of the sublethal behavioural and physiological effects of physically and chemically dispersed oil on an intertidal isopod.	1980	59,915	(B.84)	54
EVS Consultants Limited Coquitlam, B.C.	SSC/ASC DFE/MPE	Development studies with herring eggs for sublethal oil and oil dispersant toxicity evaluations.	1977	3,984	(B.50)	54
Fenco Consultants Limited Calgary, Alta.	SSC/ASC DFE/MPE	Overview of the Canadian Arctic in relation to oil spill countermeasures.	1977	70,916	(B.52)	54
Fenco (Nfld.) Limited St. John's, Nfld.	SSC/ASC DFE/MPE	Updating the Arctic Marine Oilspill Program Arctic Atlas.	1979	16,423	(B.72)	54
F.F. Slaney and Company (Alberta) Limited Calgary, Alta.	SSC/ASC DFE/MPE	Preparation and publication of a public information pamphlet on oil spill cleanup.	1978	24,994	(B.60)	54
F.G. Bercha and Associates Limited Calgary, Alta.	SSC/ASC EC	Determination of the probabilities of oil spills in the Canadian Arctic waters.	1976	19,810	(B.42)	54
F.G. Bercha and Associates Limited Calgary, Alta.	SSC/ASC DFE/MPE	Determination of the probability of oil spills due to blowouts during exploratory drilling from artificial islands and drillships.	1977	10,555	(B.57)	54
F.G. Bercha and Associates Limited Calgary, Alta.	SSC/ASC EC	Development and evaluation of oil spill risk models of tanker traffic in Canadian waters.	1979	49,875	(B.74)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Harris, G.W. Hants County, N.S.	SSC/ASC DFE/MPE	Testing of selected oil spill dispersants.	1978	23,000	(B.62)	54
Heidenreich, G. St. Andrews, N.B.	SSC/ASC DFO/MPO	Bibliography and review of recently published scientific literature on the effect of oil on fisheries and fisheries resources.	1979	1,998	(B.81)	54
Hellebust, J.A. and Hutchinson, T.C. Dept. of Zoology and Dept. of Botany Univ. of Toronto	SSC/ASC INAC/AINC	A study to cover the effect of crude oil spills on northern terrain, aquatic and terrestrial vegetation and on soil fauna.	1974	59,334	(B.16)	54
Hornof, V. Dept. of Chemical Engineering Univ. of Ottawa	SSC/ASC EMRC	Applicability of polymer chemistry and physics to Enhanced Oil Recovery (EOR), water/oil/rock interfacial thermodynamics, and experimental core displacement and modelling studies - consulting services.	1983	2,400	(B.124)	54
Hornof, V. and Neale, G.H. Dept. of Chemical Engineering Univ. of Ottawa	NSERCC/ CRSNGC	Enhanced oil recovery using lignin waste products.	1980-81 1981-82 1982-83 1983-84	29,558 33,286 40,250 40,000		54
Hoverlift Systems Limited Calgary, Alta.	SSC/ASC DFE/MPE	Design and development of an oil-recovery vehicle to operate in ice-infested water - part of the Arctic Marine Oilspill Program.	1978	49,823	(B.59)	54
Hrudey, S.E. Dept. of Civil Engineering Univ. of Alberta	NSERCC/ CRSNGC	Emulsified oils wastewater treatment	1980-81 1981-82 1982-83	11,000 12,100 13,976		54
Hrudey, S.E. Dept. of Civil Engineering Univ. of Alberta	NSERCC/ CRSNGC	Particle size analyser.	1981-82	30,000		54
Hrudey, S.E. and Smith, D.W. Dept. of Civil Engineering Univ. of Alberta	NSERCC/ CRSNGC	Refrigerated centrifuge.	1982-83	18,000		54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Foundation of Canada Engineering Corporation Limited (The) Vancouver, B.C.	SSC/ASC EC	Implementation study for proposed experiment on crude oil in Arctic sea ice.	1974	2,310	(B.11)	54
Gary Harris Consultants Hants County, N.S.	SSC/ASC EC	Testing of selected oil spill dispersants.	1979	26,500	(B.77)	54
Gary Harris Consultants Hants County, N.S.	SSC/ASC EC	Testing of selected oil spill dispersants for effectiveness and toxicity.	1980 1983	36,500 40,060	(B.85) (B.123)	54 54
Geo-Analysis Limited Ottawa, Ont.	SSC/ASC DFE/MPE	Location of potential site near Ottawa for the testing of oil spill remote sensing equipment - part of the Arctic Marine Oilspill Program (AMOP).	1978	4,861	(B.63)	54
Geraci, J.R. Dept. of Pathology Univ. of Guelph	SSC/ASC EC	Study of the effects of oil and seismic related activities on seals.	1974	40,000	(B.17)	54
Gesser, H.D. Dept. of Chemistry Univ. of Manitoba	NRCC/CNRC NSERCC/ CRSNGC	1) ESR studies of spin labels and surface stabilized free radicals. 2) A study of solvent extraction systems using solid open cell polymeric foam sparge.	1975-76 1976-77 1977-78	8,775 9,000 9,756		54
Gesser, H.D. Dept. of Chemistry Univ. of Manitoba	NSERCC/ CRSNGC	1) Separation and concentration of dissolved inorganic complexes and organic pollutants from water. 2) ESR studies of surface reactions and the oxidation of oil on water and ice.	1978-79 1979-80 1980-81 1981-82 1982-83	10,500 10,868 11,933 11,000 12,705		54
Harris, G.W. Halifax, N.S.	SSC/ASC EC	Biological and chemical assessments of oil spill dispersants.	1976	13,000	(B.38)	54
Harris. G.W. Halifax, N.S.	SSC/ASC DFE/MPE	Testing and evaluation of commercially available oil spill dispersants.	1977	15,795	(B.52)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Hsu, T.R. Dept. of Mechanical Engineering Univ. of Manitoba	NSERCC/ CRSNGC	On the mobility of oil slick in ice/water compounds due to changing thermal environment.	1978-79 1979-80 1980-81	25,000 51,750 17,501		54
Hutchinson, T.C. Dept. of Botany Univ. of Toronto	SSC/ASC INAC/AINC	Monitoring of effects of crude and diesel oil spills on Arctic vegetation.	1977	5,222	(B.50)	54
Hutchinson, T.C. Dept. of Botany Univ. of Toronto	SSC/ASC INAC/AINC	Post-oil spill recovery of Arctic vegetation.	1980	2,269	(B.85)	54
Hutchinson, T.C., Hellebust, J.A. and Mackay, D. Dept. of Botany, Dept. of Zoology and Dept. of Chemical Engineering and Applied Chemistry Univ. of Toronto	SSC/ASC INAC/AINC	Monitoring studies of the short-and-long term effects of crude oil spills on terrestrial and aquatic vegetation in Arctic ecosystems.	1975	21,147	(B.26)	54
Idler, D.R. Marine Science Centre Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Effect of petroleum fractions on hormones of reproduction in fish.	1978-79 1979-80 1980-81	16,000 17,595 19,319		54
Imperial Oil Limited Calgary, Alta.	SSC/ASC EC	Investigation of movement of oil under sea ice.	1975	10,000	(B.24)	54
Innovative Ventures Limited Calgary, Alta.	SSC/ASC DFE/MPE	Evaluation of ice-movement buoys for tracking oil spills - part of the Arctic Marine Oilspill Program.	1978	5,496	(B.59)	54
Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC EMRC	Editing of the AMOP final report.	1980	3,958	(B.82)	54
International Bird Rescue Research Centre Berkeley, California	SSC/ASC EC	Lecture and practical demonstration of techniques for caring for oiled birds.	1980	1,000	(B.92)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
J.B. Sprague Associates Limited Guelph, Ont.	SSC/ASC EC	Scientific critique of the literature review of the fate and effects of oil and chemically dispersed oil on the Canadian marine environment.	1979	4,150	(B.76)	54
James Allister Sciences Foundation (The) Toronto, Ont.	SSC/ASC EC	Observation of the behaviour of crude oil under shore-fast ice.	1974	5,000	(B.15)	54
James F. MacLaren Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Organization of a technical seminar for the Arctic Marine Oilspill Program (AMOP).	1978 1979	23,056 30,155	(B.60) (B.72)	54
James F. MacLaren Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Back-up government contingency plan for possible major spills/oil blow-outs in the eastern Arctic marine environment - part of the Arctic Marine Oilspill Program.	1979	35,087	(B.70)	54
Kam-Yung Chan, E. Port Coquitlam, B.C.	SSC/ASC DFE/MPE	Feasibility study on oil spill counter-measures optimization.	1979	1,500	(B.72)	54
Khan, R.A. Marine Sciences Research Laboratory Memorial Univ. of Newfoundland	SSC/ASC DFO/MPO	Study of the histopathology of tissues from fish which have been exposed to petroleum.	1981	26,387	(B.97)	54
Knapp, R. Mississauga, Ont.	SSC/ASC EC	Report on the natural and induced microbial degradation of oil spilled on land, water and beaches.	1974	4,500	(B.15)	54
Kozicki, W. Dept. of Chemical Engineering Univ. of Ottawa	NSERCC/ CRSNGC	Characterization of polymer/surfactant absorption in enhanced oil recovery.	1982-83 1983-84	11,100 11,766		54
Kozicki, W. Dept. of Chemical Engineering Univ. of Ottawa	NSERCC/ CRSNGC	Polymer absorption in enhanced oil recovery and filtration.	1980-81	9,000		54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
L.C. Oddy Training Design Limited Ottawa, Ont.	SSC/ASC EC	Planning and organization of audio-visuals for the fifth annual Arctic Marine Oil Spills Program technical seminar.	1982	4,218	(B.111)	54
LGL Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Development of scientific oilspill response plan for the Beaufort Sea.	1977	19,630	(B.47)	54
LGL Limited Toronto, Ont.	SSC/ASC DFE/MPE	Acute lethal toxicity of oil/dispersant mixtures to selected Arctic species - part of the Arctic Marine Oilspill Program.	1978 1978	87,275 73,931	(B.58) (B.64)	54 54
LGL Limited Toronto, Ont.	SSC/ASC EC	Amalgamation of previous work dealing with dispersed oil into a consolidated report.	1980	3,650	(B.83)	54
LGL Limited Toronto, Ont.	SSC/ASC EC	Baffin Island Oil Spill Project - biological component.	1980	131,189	(B.88)	54
LGL Limited Toronto, Ont.	SSC/ASC EC	Baffin Island Oil Spill Project - microbiological component.	1980	59,940	(B.88)	54
LGL Limited Toronto, Ont.	SSC/ASC EC	In situ studies of the effects of oil and chemically disbursed oil on primary productivity in ice algae and on underice amphipod communities.	1981	282,443	(B.99)	54
LGL Limited Toronto, Ont.	SSC/ASC EC	Baffin Island Oil Spill Project - benthic biology component.	1981 1982 1983	311,636 438,948 308,578	(B.101) (B.114) (B.129)	54
LGL Limited Toronto, Ont.	SSC/ASC EC	In-situ studies of the effects of oils and chemically tested oil, on primary productivity of ice algae and on under-ice meiofaunal and macrofaunal communities.	1982	270,043	(B.112)	54
L.H. Schwindt and Company Limited Burlington, Ont.	SSC/ASC DFE/MPE	Development of an engineering design for an ice/oil boom.	1979	7,500	(B.73)	54
Lockhead Petroleum Services Limited New Westminister, B.C.	SSC/ASC DFE/MPE	Study to determine the feasibility of underwater containment of sub-sea oil spills - part of the Arctic Marine Oilspill Program.	1978	26,790	(B.66)	54
Lunardini, V.J. Dept. of Mechanical Engineering Univ. of Ottawa	NRCC/CNRC	Thermal regime of permafrost - oil spill effects.	1974-75	5,000		54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Mackay, D. Institute for Environmental Studies Univ. of Toronto	SSC/ASC DFE/MPE	Analysis of the chemical dispersant effect on the distribution of oil.	1977	5,500	(B.49)	54
Mackay, D. Dept. of Chemical Engineering and Applied Chemistry Univ. of Toronto	SSC/ASC INAC/AINC	Studies of the fate and effect of burned and unburned oil spills on Arctic terrain.	1977	7,919	(B.50)	54
Mackay, D. Dept. of Chemical Engineering and Applied Chemistry Univ. of Toronto	SSC/ASC INAC/AINC	Studies of the physical weathering of oil spills on Arctic terrain with and without burning.	1978	7,864	(B.62)	54
Mackay, D. Dept. of Chemical Engineering and Applied Chemistry Univ. of Toronto	SSC/ASC DFE/MPE	Photographic study of the behaviour of oil and gas under ice.	1978	6,162	(B.63)	54
Mackay, D. Scarborough, Ont.	SSC/ASC DFE/MPE	Study on the fate and behaviour of oil spills in Canadian waters particularly in the Arctic - part of the Arctic Marine Oilspill Program.	1978	36,860	(B.64)	54
Mackay, D. Dept. of Chemical Engineering and Applied Chemistry Univ. of Toronto	NSERCC/ CRSNGC	Fundamental studies of the behaviour of subsea and surface releases of oil and natural gas in the Arctic.	1978-79 1979-80 1980-81	19,900 20,597 22,616		54
Mackay, D. Scarborough, Ont.	SSC/ASC EC	Workshop on oil, gas and ice.	1979	2,000	(B.80)	54
Mackay, D. Institute for Environmental Studies Univ. of Toronto	SSC/ASC EC	Analysis of the physical chemical factors influencing the toxicity of oil dispersant mixtures.	1980	29,385	(B.82)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Mackay, D. Dept. of Chemical Engineering and Applied Chemistry Univ. of Toronto	SSC/ASC INAC/AINC	Crude oil samples from terrestrial spills at Norman Wells - analyses and interpretation.	1981	8,500	(B.100)	54
Mackay, D. Scarborough, Ont.	SSC/ASC EC	Technical consultation regarding the Bios Project and dispersant use.	1981	8,000	(B.102)	54
Mackay, D. Dept. of Chemical Engineering and Applied Chemistry Univ. of Toronto	SSC/ASC EC	Chemical and physical study of oil spill properties.	1982	35,000	(B.110)	54
Mackay, D. Scarborough, Ont.	SSC/ASC EC	Review of the behaviour and fate of oil in cold climates.	1982	25,000	(B.110)	54
Mackay, D. Scarborough, Ont.	SSC/ASC EC	Special advisor on oil spill behaviour in northern waters to Beaufort Sea environmental assessment panel review.	1982	10,000	(B.114)	54
Mackay, D. Dept. of Chemical Engineering and Applied Chemistry Univ. of Toronto	SSC/ASC EC	Development of a field effectiveness test for oil spill dispersant.	1983	10,000	(B.118)	54
Mackay, D. Institute of Environmental Studies Univ. of Toronto	SSC/ASC EC	Spills of opportunity: sampling and analysis of oil dispersed and dissolved in water.	1983	25,000	(B.127)	54
Mackay, D. and Clarke, M.E., and Phillips, C.R. Dept. of Chemical Engineering and Applied Chemistry, and The Institute of Environmental Sciences and Engineering Univ. of Toronto	SSC/ASC INAC/AINC	A study to cover the physical aspects of crude oil spills on northern sites.	1974	48,640	(B.16)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Mackay, D. Hutchinson, T.C. and Hellebust, J.A. Dept. of Chemical Engineering and Applied Chemistry, Dept. of Botany and Dept. of Zoology Univ. of Toronto	NRCC/CNRC NSERCC/ CRSNGC	Fundamental studies of the nature of hydrocarbon and chlorinated hydrocarbon toxicity to aquatic biota.	1977-78 1978-79	10,000 12,000		54
Mackay, D. and Wells, P.G. Institute of Environmental Studies Univ. of Toronto	SSC/ASC EC	Chemical dispersion of oil spills: an international research symposium.	1980	3,150	(B.93)	54
Malcolm, J.D. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Sessile drop determination of the wetting of oil under ice.	1978-79	15,000		54
Malcolm, J.D. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Behaviour of crude oil under sea ice.	1979-80 1980-81 1981-82	8,700 9,553 10,508		54
Marks, L. Halifax, N.S.	SSC/ASC DFE/MPE	Microbial assays on sediment and water samples from oiled environments.	1977	4,449	(B.55)	54
McAllister Engineering Limited Vancouver, B.C.	SSC/ASC EC	Development of an offshore selfinflating oil containment boom for Arctic use - part of the Arctic Marine Oilspill Program.	1979	144,707	(B.73)	54
McAllister Engineering Limited Vancouver, B.C.	SSC/ASC EC	Design of transportation unit for offshore boom and deployment module.	1980	15,895	(B.83)	54
McAllister Engineering Limited Vancouver, B.C.	SSC/ASC EC	Repair and modification of a prototype offshore self-inflating oil boom - part of the Arctic Marine Oilspill Program.	1979	1,600	(B.83)	54

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
McAllister Engineering Limited Vancouver, B.C.	SSC/ASC EC	Development of operational procedures for offshore oil containment boom and deployment module.	1980	5,380	(B.84)	54
McLean, A.Y. Dept. of Chemical Engineering Nova Scotia Technical College	NRCC/CNRC	The properties and chemical composition of hydrocarbons in relation to oil spills.	1974-75 1975-76 1976-77	6,000 6,845 7,020		54
Metge, M. Calgary, Alta.	SSC/ASC DFE/MPE	Implementation study for large-scale controlled oilspills in northern waters - part of the Arctic Marine Oilspill Program.	1978	37,024	(B.64)	54
Michaud, D. Montréal, Qué.	SSC/ASC EC	Participation aux recherches sur les possibilités de biodégradation du pétrole dans les eaux salées et douces de l'Arctique.	1974	9,000	(B.18)	54
Mining Resources Engineering Limited Kingston, Ont.	SSC/ASC EC	Development of methods and techniques to rapidly trench sea-ice for the containment of oil.	1974	25,214	(B.21)	54
Moir, J. Burlington, Ont.	SSC/ASC EC	Amendment to a contract to conduct fluid mechanic and hydraulic research related to oil spill control in flowing waters to include the estimation of interfacial friction factors for oil slicks in flowing waters.	1975	2,333	(B.30)	54
Montreal Engineering Company Limited Montréal, Qué.	SSC/ASC EC	A literature review of existing methods and techniques for the rapid penetration of sea-ice and the recovery, transferral, separation and disposal of crude oil spilled under Arctic ice.	1974	116,112	(B.21)	54
Montreal Engineering Company Limited Montréal, Qué.	SSC/ASC EC	Amendment to contract for the review of methods and techniques of penetration of ice, recovery, transferral, separation and disposal of crude oil spilled under Arctic ice to include containment of oil, and shoreline protection and clean-up.	1975	40,390	(B.28)	54

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Montreal Engineering Company Limited Halifax, N.S.	SSC/ASC DFE/MPE	Evaluation of the performance of the oil mop heating element.	1977	11,790	(B.49)	54
Morris Industries Limited North Vancouver B.C.	SSC/ASC DFE/MPE	Evaluation of removing oil from water with a high performance skimming device.	1977	10,500	(B.53)	54
Morris Industries Limited North Vancouver, B.C.	SSC/ASC DFE/MPE	Development of Morris skimmers for Arctic use - part of the Arctic Marine Oilspill Program.	1978	31,534	(B.66)	54
Morris Industries Limited North Vancouver, B.C.	SSC/ASC EC	Design and demonstrate a counter-rotating disc oil recovery unit using a catamaran configuration.	1979	21,351	(B.79)	54
Mullin, T.C. Pierrefonds, Que.	SSC/ASC EC	Research on the physiological ecology and the effects of crude oils on Arctic marine invertebrates.	1974	7,500	(B.16)	54
Mullin, T.C. Senneville, Que.	SSC/ASC EC	Amendment to a contract for research on the physiological ecology and the effects of crude oils on Arctic marine invertebrates to include additional related studies.	1975	6,236	(B.28)	54
Neill and Gunter Limited Dartmouth, N.S.	SSC/ASC DFE/MPE	Development of equipment for the cleaning of spilled oil from recreational sand beaches.	1978	106,619	(B.64)	54
Neotechnology Consultants Limited Calgary, Alta.	SSC/ASC DFO/MPO	Subsea containment of oilwell blowouts - part II; optimization of two-phase flow riser conditions.	1982	5,775	(B.109)	54
Norcor Engineering and Research Limited Don Mills, Ont.	SSC/ASC EC	Implementation study for proposed experiment on crude oil in Arctic sea ice.	1974	3,475	(B.11)	54
Norcor Engineering and Research Limited Don Mills, Ont.	SSC/ASC EC	Investigation into the effects of entrainment and emulsification of crude oil in Arctic sea ice.	1974	472,000	(B.16)	54

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Norcor Engineering and Research Limited Yellowknife, N.W.T.	SSC/ASC EC	Amendment to a contract for the investigation of entrainment and emulsification of crude oil in Arctic sea ice to increase the number of oil spills and incorporate two types of oil in the spills.	1974	26,833	(B.21)	54
Norcor Engineering and Research Limited Yellowknife, N.W.T.	SSC/ASC EC	Amendment to a contract to conduct an experiment to investigate the effects of entrainment and emulsification of crude oil in Arctic seas ice to include the recovery and removal of crude oil from Balaena Bay.	1975	54,070	(B.30)	54
Norcor Engineering and Research Limited Yellowknife, N.W.T.	SSC/ASC EC	Report preparation on ice drift patterns and oil disposition in the Beaufort Sea.	1976	12,480	(B.42)	54
Norcor Engineering and Research Limited Yellowknife, N.W.T.	SSC/ASC DFE/MPE	Resource requirement exercise for oilspill scenarios in the Beaufort Sea - part of the Arctic Marine Oilspill Program.	1978	31,908	(B.58)	54
Norcor Engineering and Research Limited Yellowknife, N.W.T.	SSC/ASC DFE/MPE	Field study of the behaviour of crude oil trapped under multi-year ice in the Canadian Arctic - part of the Arctic Marine Oilspill Program (AMOP).	1978	60,812	(B.63)	54
Nordco Limited St. John's, Nfld.	SSC/ASC DFE/MPE	Analysis of the feasibility of using surface techniques for the detection of oil under ice - part of the Arctic Marine Oilspill Program.	1978	20,650	(B.69)	54
Nordco Limited St. John's, Nfld.	SSC/ASC DFE/MPE	Field testing of Arctic shoreline clean-up techniques on the Labrador coast - phase I.	1979	14,920	(B.72)	54*
North-Tech Environmental Services Guelph, Ont.	SSC/ASC EC	Theoretical scale study of sub-sea oil/gas blowouts.	1980	1,700	(B.85)	54
Nyborg, M. and McGill, W.B. Dept. of Soil Sciences Univ. of Alberta	SSC/ASC EC	Study of the reclamation of forested land subjected to oil spills.	1974	13,991	(B.17)	54

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Oil Mop Pollution Control Limited Mississauga, Ont.	SSC/ASC EC	Development and fabrication of a cold water oil recovery system.	1976	71,060	(B.42)	54
Oil Mop Pollution Control Limited Mississauga, Ont.	SSC/ASC DFE/MPE	Conceptual design of oil recovery vehicle to operate in ice-infested water.	1978	26,900	(B.58)	54
Oil Mop Pollution Control Limited Mississauga, Ont.	SSC/ASC DFE/MPE	Development of a stationary oil skimmer.	1978	17,000	(B.63)	54
Oil Mop Pollution Control Limited Mississauga, Ont.	SSC/ASC DFE/MPE	Development of an oil mop skimmer for Arctic offshore operations -- part of the Arctic Marine Oilspill Program.	1978	24,750	(B.67)	54
Oil Mop Pollution Control Limited Mississauga, Ont.	SSC/ASC EC	Design and construction of a production prototype Arctic oil skimmer utilizing a Catamaran configuration and the oil mop collection apparatus.	1979	59,950	(B.80)	54
Orion Electronics Limited Digby County, N.S.	SSC/ASC DFE/MPE	Design and supply of prototype equipment for oil spill tracking.	1977	8,381	(B.56)	54
Orion Electronics Limited Digby County, N.S.	SSC/ASC DFE/MPE	Design and supply development models of a portable ultraviolet light to detect oil spills at night from wharves and small boats.	1978	15,910	(B.60)	54
Orion Electronics Limited Digby County, N.S.	SSC/ASC DFE/MPE	Development of a night oil slick finder.	1979	13,740	(B.71)	54
Orion Electronics Limited Digby County, N.S.	SSC/ASC DFO/MPO	Carry out a survey in the vicinity of the Kurdistan bow site on the M.V. Alert to establish the presence of any oil slicks, measure their formation rate and drift patterns and evaluate drifting buoy performance.	1979	7,234	(B.76)	54
Orion Electronics Limited Digby County, N.S.	SSC/ASC EC	Modification of a prototype oil spill detector.	1983	2,937	(B.118)	54

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Owens, E.H. Baton Rouge, Louisiana, USA	SSC/ASC DFE/MPE	Preparation and presentation of a workshop on the geological aspects of coastal oil spills in Canada.	1977	4,830	(B.51)	54
Parkinson, D. Dept. of Biology Univ. of Calgary	SSC/ASC INAC/AINC	A study of the effect of oil spillage on microorganisms in the tundra region.	1974	9,056	(B.15)	54
Peabody, C. Toronto, Ont.	SSC/ASC EC	Updating of maps concerning high risk oil spill areas.	1980	9,120	(B.92)	54
Petroleum Association for Conservation of the Canadian Environment Ottawa, Ont.	SSC/ASC EC	Evaluation of the effectiveness of oil spill dispersants.	1980	50,000	(B.83)	54
Pilkington, M.F. Dollard-des-Ormeaux, Qué.	SSC/ASC EC	Research into the ecology and oil biodegradation potential of Arctic marine and fresh waters.	1975	4,375	(B.28)	54
Plansearch Incorporated (Marine) Dartmouth, N.S.	SSC/ASC EC	Determination of the sublethal effects of oil on Arctic bivalves.	1980	3,556	(B.92)	54
Poulet, S.A. INRS Univ. du Québec à Rimouski	NRCC/CNRC	Pollution du pétrole: ses effets sur la nutrition et le developpement d'organismes marins filtreurs.	1975-76 1976-77 1977-78	5,850 6,000 6,504		54
Quigley, R.M. Fac. of Engineering Univ. of Western Ontario	NSERCC/ CRSNGC	1) Application of clay mineralogy and soil chemistry to problems of pollutant migration through clay soils, pipeline impact on soil fertility and soil bonding. 2) Continued study of cyclic bluff instability and coastal erosion on Lakes Erie and Huron.	1977-78 1978-79 1979-80	19,800 20,988 21,723		54
Rahimtula, A. Dept. of Biochemistry Memorial Univ. of Newfoundland	SSC/ASC EC	Study of the effects of oil on the metabolism of sea birds.	1983	52,977	(B.124)	54

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Rahimtula, A. et al. Dept. of Biochemistry Memorial Univ. and Fisheries and Oceans Canada	NSERCC/ CRSNGC	Toxic and metabolic effects of crude and treated oils on birds, particularly seabirds.	1981-82 1982-83 1983-84	50,000 56,050 59,414		54
Remotec Applications Incorporated St. John's, Nfld.	SSC/ASC EC	Detection of oil under ice.	1980	132,491	(B.89)	54
R.M. Hardy and Associates Limited Calgary, Alta.	SSC/ASC DFE/MPE	Selection of oilspill landfill sites along Beaufort Sea Coast - part of the Arctic Marine Oilspill Program.	1978	42,975	(B.58)	54
Robertson, L.A. Burlington, Ont.	SSC/ASC DFE/MPE	Evaluation of oil spill sorbents.	1977	13,060	(B.51)	54
Robertson, L.A. Burlington, Ont.	SSC/ASC DFE/MPE	Development of a user's guide for oil spill containment barriers.	1978	4,970	(B.62)	54
Rowland, W. Toronto, Ont.	SSC/ASC EC	Overview report on the feasibilities of oil spill countermeasures in the Beaufort Sea.	1975	7,000	(B.31)	54
Rowland, W. Toronto, Ont.	SSC/ASC EC	Revisions to an overview report on the feasibilities of oil spill counter-measures in the Beaufort Sea.	1976	822	(B.40)	54
Samson, A. Halifax, N.S.	SSC/ASC DFO/MPO	Update the publication "A Selected Bibliography on the Fate and Effects of Oil Pollution Relevant to the Canadian Marine Environment."	1980	2,560	(B.89)	54
Seakem Oceanography Limited Sidney, B.C.	SSC/ASC DFE/MPE	Study of the behaviour of the emulsified oil in sea water.	1977	27,622	(B.56)	54
Seakem Oceanography Limited Sidney, B.C.	SSC/ASC DFE/MPE	Determination of the fate of dispersed oil in the environment -- part II.	1978	58,954	(B.68)	54
Seakem Oceanography Limited Sidney, B.C.	SSC/ASC EC	Baffin Island Oil Spill Project - Chemistry Component.	1980	214,216	(B.89)	54

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Seakem Oceanography Limited Sidney, B.C.	SSC/ASC EC	Baffin Island Oil Spill Project Victoria dye test.	1981	14,118	(B.101)	54
Seakem Oceanography Limited Sidney, B.C.	SSC/ASC EC	Baffin Island oilspill project - hydrocarbon chemistry component.	1981	307,732	(B.102)	54
Seakem Oceanography Limited Sidney, B.C.	SSC/ASC EC	Baffin Island oilspill project hydrocarbon chemistry-field component.	1982	67,553	(B.113)	54
Seakem Oceanography Limited Sidney, B.C.	SSC/ASC INAC/AINC	Extraction and hydrocarbon analysis of water samples from the Department of Indian Affairs and Northern Development 1982 Tank Study.	1983	6,930	(B.118)	54
Seakem Oceanography Limited Sidney, B.C.	SSC/ASC EC	Study of oceanographic conditions suitable for the sinking of oil.	1983	24,670	(B.118)	54
Seakem Oceanography Limited Sidney, B.C.	SSC/ASC EC	Conduct a study on oil spills.	1983	24,317	(B.119)	54
Seakem Oceanography Limited Sidney B.C.	SSC/ASC EC	Baffin Island oilspill project hydrocarbon chemistry - field component fourth year of studies.	1983	53,280	(B.124)	54
Sherry, J. Hamilton, Ont.	SSC/ASC EC	Determination of the effect of oil and dispersants on populations of fungi.	1979	16,999	(B.74)	54
S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC CD/MC	An overview of potential large oilspills offshore Canada and possible response strategies.	1981	24,600	(B.97)	54
S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC EC	Calibration of the real time display for oil spill thickness.	1982	5.844	(B.107)	54

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S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC EC	Review of countermeasures for a major oil spill from a vessel in Arctic waters.	1982	31,790	(B.107)	54
S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC EC	Presentation of a workshop on dispersant use decision making.	1982	18,227	(B.108)	54
S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC EC	Presentation of a workshop on dispersant use decision making and revision of the - Workbook for Assessing Environmental Impact of Chemically Dispersed and Untreated Oil.	1982	19,006	(B.114)	54
S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC EC	Preparation of a catalogue of oil barriers.	1982	44,620	(B.115)	54
S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC EC	Study of igniter requirements in the event of a major oil spill in the Canadian Arctic.	1982	25,812	(B.116)	54
S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC EC	Study of on-board self-help systems for Arctic tankers.	1983	26,986	(B.119)	54
S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC EC	Efficiency of oil spill skimmers as a function of sea state and oil viscosity.	1983	22,879	(B.120)	54
S.L. Ross Environmental Research Limited Ottawa, Ont.	SSC/ASC EC	Study of the in situ burning of uncontained oil slicks from tanker accidents as an offshore oil removal	1983	136,994	(B.128)	54

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Spiegelman, G.B. Dept. of Microbiology Univ. of British Columbia	NSERCC/ CRSNGC	Hydrocarbon degradation by marine bacteria.	1979-80 1980-81 1981-82	20,000 27,450 30,575		54
Square One Management Limited Ottawa, Ont.	SSC/ASC DFE/MPE	Scientific editing of Arctic marine oilspill reports - part of the Arctic Marine Oilspill Program.	1978	10,075	(B.68)	54
Thalassic Data Limited . Vancouver, B.C.	SSC/ASC EC	Amendment to a contract to organize and conduct a beach walk and analyze samples in the Beaufort Sea to include the determination of hydrocarbons by the Giger and Blumer method.	1975	3,477	(B.33)	54
Topham, D.R. Dept. of Electrical Engineering Univ. of Alberta	SSC/ASC EC	A study of hydrodynamic aspects on the behaviour of oil released under sea ice.	1974 1975	4,175 4,175	(B.17) (B.22)	54
Topham, D.R. Vancouver, B.C.	SSC/ASC EC	Investigation of the characteristics and behaviour of a rising oil/gas plume in ice-covered waters.	1974	22,500	(B.21)	54
Trecan Limited Mississauga, Ont.	SSC/ASC EC	Study of the possibilities of burning a melange of sand and petroleum products in a mobile apparatus.	1976	9,800	(B.35)	54
Trecan Limited Mississauga, Ont.	SSC/ASC DFE/MPE	Design of an air-portable incinerator - part of the Arctic Marine Oilspill Program.	1978	13,930	(B.58)	54
Trecan Limited Mississauga, Ont.	SSC/ASC DFE/MPE	Construction and testing of an air-portable incinerator - part of the Arctic Marine Oilspill Program.	1978	38,057	(B.66)	54
Trecan Limited Mississauga, Ont.	SSC/ASC EC	Design up-date for an air portable incinerator for oiled debris.	1979	3,749	(B.81)	54
Trecan Limited Mississauga, Ont.	SSC/ASC TC	Modifications to the design of a reciprocating kiln for the combustion of oil-contaminated beach material.	1980	4,992	(B.83)	54
Trucco, R.G. Ottawa, Ont.	SSC/ASC INAC/AINC	Assess the effects of dispersed oil on Arctic benthic organisms at Cape Hatt, Northwest Territories.	1982 1983	22,100 20,535	(B.113) (B.124)	54 54

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Trudel, B.K. Ottawa, Ont.	SSC/ASC DFE/MPE	Effect of oil and an oil dispersant on primary productivity of natural Arctic phytoplankton population.	1977	30,500	(B.53)	54
Trudel, B.K. Ottawa, Ont.	SSC/ASC EC	Development and implementation of an ecological impact assessment model for oilspills	1979	28,165	(B.78)	54
Watson, A.L. Victoria, B.C.	SSC/ASC EC	In-depth overview study and report related to the interpretation of Beaufort Sea project Sea-Ice Studies with particular emphasis on the fate of oil in sea ice.	1976	8,000	(B.41)	54
Wayman, M. Dept. of Chemical Engineering Univ. of Toronto	NSERCC/ CRSNGC	Oil-bearing microbes: microbial systems for liquid fuels.	1980-81 1981-82 1982-83	35,000 38,990 43,715		54
Western Canada Hydraulic Laboratories Limited Port Coquitlam, B.C.	SSC/ASC DFE/MPE	Assessment of ancillary equipment for handling cold oil and oil/water ice mixture - part of the Arctic Marine Oilspill Program.	1978	34,851	(B.58)	54
Western Canada Hydraulic Laboratories Limited Port Coquitlam, B.C.	SSC/ASC DFE/MPE	Laboratory testing to optimize the performance of an oilspill containment and recovery vessels.	1978	37,725	(B.69)	54
Westlake, D.W.S. Dept. of Microbiology Univ. of Alberta	SSC/ASC INAC/AINC	Investigation of microbiological aspects of oil spills on northern terrain.	1974	50,150	(B.16)	54
Westlake, D.W.S. Dept. of Microbiology Univ. of Alberta Edmonton, Alta.	SSC/ASC INAC/AINC	Investigation of factors affecting the biodegradability of northern crude oils.	1975	19,200	(B.26)	54
Wing-Wai Lee, S. Agincourt, Ontario	SSC/ASC DFE/MPE	Evaluation of data collected on an oil-ice boom - part of the Arctic Marine Oilspill Program.	1978	4,875	(B.64)	54

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Woodward-Clyde Consultants San Francisco, California, USA	SSC/ASC EC	Organization of an oil spill technology transfer work-shop.	1979	5,885	(B.75)	54
Woodward-Clyde Consultants Victoria, B.C.	SSC/ASC EC	Selection of test sites for a joint nearshore and shoreline oil spill experiment on Baffin Island.	1979	5,000	(B.77)	54
Woodward-Clyde Consultants Victoria, B.C.	SSC/ASC EC	Preparation of a report on coastal environments and the clean-up of oil spills for inland waters.	1980	2,759	(B.82)	54
Woodward-Clyde Consultants Victoria, B.C.	SSC/ASC EC	Baffin Island oil spill project - shoreline component.	1980 1981 1982 1983	29,558 65,000 79,861 30,000	(B.89) (B.102) (B.114) (B.124)	54

PARKS, BIOSPHERE AND ECOLOGICAL RESERVES / PARCS, RÉSERVES DE LA BIOSPHÈRE ET ÉCOLOGIQUES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
D.A. Blood & Associates Limited Lantzville, B.C.	SSC/ASC EC	Preparation of wildlife area proposals for the Yukon.	1983	5,000	(B.125)	55
Fuller, W.A. Dept. of Zoology Univ. of Alberta	INAC/AINC	Chair Public Meeting - Kluane National Park.	1977-78	50		55

PETROLEUM AND NATURAL GAS (EXPLORATION, DEVELOPMENT, TECHNOLOGY, ASSOCIATED IMPACTS) / PÉTROLE ET GAZ NATUREL (EXPLORATION, DÉVELOPPEMENT, TECHNOLOGIE, IMPACTS ASSOCIÉS)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Acres Consulting Services Limited Niagara Falls, Ont.	SSC/ASC EC	Review of spray on, or grouting sealants for, petroleum product storage areas and dykes in the Arctic and sub-Arctic areas.	1976	23,000	(B.36)	56
Albery, Pullerits, Dickson & Associates Limited Don Mills, Ont.	SSC/ASC TC	Study on marine transportation of oil and liquid natural gas from the Arctic Islands to southern markets.	1977	229,649	(B.47)	56
Albery, Pullerits, Dickson & Associates Limited Don Mills, Ont.	SSC/ASC TC	Study the feasibility of converting natural gas into methanol or gasoline in the Arctic and transporting the fuel to eastern Canada.	1981	137,000	(B.98)	56
AMCA International Limited Ottawa, Ont.	SSC/ASC EMRC	Study to examine the suitability of two candidate steels which can be produced in Canada for use in the construction of offshore structures and Arctic vessels.	1983	148,010	(B.119)	56
ANCON Space Technology Corporation Thornhill, Ont.	SSC/ASC EMRC	Stable platform design study.	1981	9,875	(B.97)	56
Aquatic Environments Limited Calgary, Alta.	SSC/ASC EC	Inventory of the aquatic resources of the Mackenzie Delta as related to gas development.	1975	99,943	(B.31)	56
Arctic Laboratories Limited Inuvik, N.W.T.	SSC/ASC EC	Perform detailed organic pollutant analysis of surficial sediments from abandoned Arctic artificial islands.	1983	13,575	(B.129)	56
Arctic Laboratories Limited Sidney, B.C.	SSC/ASC EC	Study and report on pollution abatement technologies applicable to oil and gas production wastes in Canadian offshore waters.	1982	139,000	(B.115)	56
Arctic Laboratories Limited Sidney, B.C.	SSC/ASC DFO/MPO	Study of the long term mobility of discharged drilling fluids in the Beaufort Sea.	1982	5,010	(B.117)	56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Atherton, D.L. Dept. of Physics Queen's Univ. at Kingston	SSC/ASC EMRC	Investigation of the effects of mechanical stress on the magnetic properties of pipeline steels for pipeline stress monitoring.	1981	118,337	(B.103)	56
Atherton, D.L. Dept. of Physics Queen's Univ. at Kingston	NSERCC/ CRSNGC	Magnetometers for pipeline inspection.	1979-80 1980-81 1981-82	20,000 21,960 24,460		56
Atherton, D.L. Dept. of Physics Queen's Univ. at Kingston	NSERCC/ CRSNGC	Magnetic inspection technique for pipelines.	1982-83 1983-84	69,950 74,147		56
Baillie, A.D. Calgary, Alta.	SSC/ASC EMRC	Comparison of basin analysis programs in the oil industry with programs at the institute of sedimentology and petroleum geology.	1981	11,000	(B.101)	56
Beveridge, J. Institute of Northern Studies Univ. of Saskatchewan	INAC/AINC	Investigation of approach to identifying entrepreneurial opportunities emanating from northern pipelines.	1977-78	5,500		56
Birkemoe, P.C. Dept. of Civil Engineering Univ. of Toronto	NSERCC/ CRSNGC	Behaviour and design of steel structurals in offshore structures.	1983-84	24,380		56
Birkemoe, P.C. et al. Dept. of Civil Engineering Univ. of Toronto	NSERCC/ CRSNGC	Structural design aspects of Canadian off-shore structures.	1980-81 1981-82 1982-83	68,980 89,098 99,895		56
Burns, D.J. Waterloo, Ont.	SSC/ASC EMRC	Survey of welded joint specifications for eastern and Arctic offshore structures.	1983	7,500	(B.119)	56
Cammaert, A.B. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	Testing and instrumentation of offshore structures.	1974-75	5,000		56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Canadian Arctic Resources Committee	CC/CAC	Conference on the Mackenzie Delta; the land, the people, oil and gas.	1975-76	3,418		56
Canadian Resource-con Limited Vancouver, B.C.	SSC/ASC EMRC	Technical and economic assessment of two selected sizes of compressor stations for natural gas pipeline electrification.	1978	86,585	(B.69)	56
Canuck Engineering Limited Calgary, Alta.	SSC/ASC EMRC	Technology assessment of long-distance liquid natural gas pipelines.	1977	91,799	(B.46)	56
Canuck Engineering Limited Calgary, Alta.	SSC/ASC TC	Investigate the transportation environment for the movement of cryogenic fuel gas and the development of risk analysis model - Phase I.	1979	41,946	(B.78)	56
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC NRCC/CNRC	Strainmeter measurements of the Panarctic Roche Point platform.	1978	9,750	(B.59)	56
Chambers, W. Whitehorse, Y.T.	SSC/ASC EC	Literature searches related to the Northern pipeline.	1980 1981	3,874 4,992	(B.88) (B.97)	56
Chinook Fuel Innovations Limited Calgary, Alta.	SSC/ASC EMRC	Survey of requirements of plate steels in offshore structures and Arctic vessels.	1982	31,574	(B.106)	56
Christian, A.J. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	1) An investigation into a sandwich-type building panel. 2) The management of Newfoundland's offshore oil and gas industries.	1979-80 1980-81 1981-82	8,000 8,784 9,662		56
Clibbon, P. Univ. Laval	SSHRCC/ CRSHC	The foothills natural gas pipeline and its socio-economic and environmental implications for the communities of the southern Yukon: phase I.	1980-81	7,738		56
Cogley, J.G. Dept. of Geography Trent Univ.	EC	Report on river crossings along projected Polar Gas Pipeline route, Churchill to Spence Bay.	1975-76	2,000		56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Coment Computer Enterprises Limited Calgary, Alta.	SSC/ASC EMRC	Petrophysical and reservoir engineering study of twelve Beaufort wells.	1983	37,156	(B.129)	56
COV-CAN Control Systems Limited Calgary, Alta.	SSC/ASC EC	Study of pipeline leak technology.	1983	24,370	(B.128)	56
Currie, Coopers and Lybrand Calgary, Alta.	SSC/ASC RCORMD/CRENOR	Assess normal and emergency command structures of drilling systems.	1983	58,500	(B.129)	56
Custom Drafting Limited Victoria, B.C.	SSC/ASC DFE/MPE	Preparation of maps, graphs and drawings for report on the Environmental Assessment of Offshore Drilling in Lancaster Sound.	1977	960	(B.55)	56
Debanne, J.G. Dept. of Management Sciences Univ. of Ottawa	NSERCC/ CRSNGC	1) Design of fluidized coal process 2) Optimal expansion of gas pipelines 3) Temperature profile of gas pipelines 4) Improvements and extensions to out-of-kilter network optimization method.	1978-79	10,000		56
Det Norske Veritas (Canada) Limited Calgary, Alta.	SSC/ASC EMRC	Review of steels used in offshore structures.	1981	39,200	(B.105)	56
Det Norske Veritas (Canada) Limited Calgary, Alta.	SSC/ASC EMRC	Assessment of the non destructive evaluation technology required for inspecting offshore structures.	1983	38,300	(B.124)	56
Det Norske Veritas (Canada) Limited Calgary, Alta.	SSC/ASC EMRC	Assessment of the fatigue design of large welded joints in off-shore structures.	1983	40,000	(B.127)	56
EBA Engineering Consultants Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Performance assessment of test liners for petroleum product storage areas in the North.	1977	14,435	(B.56)	56
Engineering Economics Associates Vancouver, B.C.	SSC/ASC EC	Review of regional economic effect issues related to hydrocarbon production and transportation from the Beaufort Sea - Mackenzie Delta Area.	1983	4,000	(B.121)	56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
FENCO Consultants Limited Toronto, Ont.	SSC/ASC EMRC	Study on the northern gas pipeline cost over-runs.	1976	200,000	(B.44)	56
Fenco Consultants Limited Calgary, Alta.	SSC/ASC DFE/MPE	Examination of sources of pollution and causes of environmental disturbances associated with Canadian offshore oil and gas production.	1979	18,097	(B.72)	56
Fenco Consultants Limited Calgary, Alta.	SSC/ASC EC	Safety and reliability analysis of Arctic petroleum and transportation systems - a preliminary study.	1980	93,258	(B.92)	56
Finn, W.D.L. Dept. of Civil Engineering Univ. of British Columbia	EMRC	Behaviour of offshore pipelines under wave and earthquake loading.	1980-81	15,380		56
Fischbuch Consultants Limited Calgary, Alta.	SSC/ASC EMRC	Preparation of a geological report on Norman Wells Oil Field, Northwest Territories and vicinity.	1983	28,250	(B.128)	56
Foothills Pipe Lines (Yukon) Limited Calgary, Alta.	SSC/ASC EMRC	Field test results of operating a chilled buried pipeline in unfrozen ground and use of the contractor's frost heave facility by representatives and agencies designated by the Crown.	1983	30,660	(B.121)	56
French, H.M. Dept. of Geography and Regional Planning Univ. of Ottawa	SSC/ASC INAC/AINC	Research study into permafrost conditions and terrain disturbances resulting from sump construction and alternate drilling fluid disposal methods -- Arctic Canada.	1977	30,978	(B.51)	56
French, H.M. Dept. of Geography and Regional Planning Univ. of Ottawa	SSC/ASC INAC/AINC	Study of waste drilling fluid disposal problems associated with Arctic gas and oil exploration.	1978	36,279	(B.62)	56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
French, H.M. Dept. of Geography and Regional Planning Univ. of Ottawa	SSC/ASC INAC/AINC	Analysis on terrain land use and waste drilling fluid disposal problems associated with Arctic gas and oil exploration.	1979	25,057	(B.73)	56
Geo-Physi-Con Company Limited Calgary, Alta.	SSC/ASC EMRC	Combined EM induction, D.C. resistivity, shear and compression wave seismic study of two test sections of buried, chilled pipeline.	1983	5,570	(B.121)	56
Gow, K.V. Dept. of Mines and Metallurgy Nova Scotia Technical College	NRCC/CNRC	1) The effect of element substitution in Smco5 on coercive force and energy product. 2) Lamellar tearing of weldments in project steels for offshore drilling rigs.	1975-76 1976-77 1977-78	3,900 4,000 4,336		56
Gregory, G.A. Dept. of Chemical Engineering Univ. of Calgary	NRCC/CNRC NSERCC/ CRSNGC	Design and analysis of multiphase pipeline systems: concurrent flow pipeline contacting of sour gas.	1976-77 1977-78 1978-79	8,850 9,593 10,169		56
Gregory, G.A. Dept. of Chemical Engineering Univ. of Calgary	NSERCC/ CRSNGC	1) Multiphase flow in pipelines and wellbase. 2) Liquid distribution effects in packed columns.	1979-80 1980-81 1981-82	14,235 15,630 17,193		56
Gregory, G.A. Dept. of Chemical Engineering Univ. of Calgary	NSERCC/ CRSNGC	Multiphase/gas-liquid flow in pipes.	1982-83 1983-84	20,300 21,518		56
Haimila, N.E. Cochrane, Alta.	SSC/ASC EMRC	Geological studies for petroleum assessments of exploration plays in selected areas of Arctic Islands, West Coast Offshore and Northern Alberta.	1980	30,000	(B.84)	56
Hay, K. Sainte-Anne-de-Bellevue, Qué.	SSC/ASC DFE/MPE	Dans le cadre du projet de pipeline des îles de l'Arctique, disposition en tables des données de l'analyse statistique.	1978	500	(B.60)	56
Herlinveaux, R.H. Sidney, B.C.	SSC/ASC DFO/MPO	Investigation of Arctic industrial offshore activities and ocean dredging and dumping in British Columbia coastal waters.	1981	13,575	(B.102)	56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Herlinveaux, R.H. Sidney, B.C.	SSC/ASC DFO/MPO	Investigation of Arctic industrial offshore activities and ocean dredging.	1982	19,200	(B.110)	56
Hodgson, G.W. Dept. of Environmental Sciences Univ. of Calgary	NSERCC/ CRSNGC	Origin of petroleum.	1978-79 1979-80 1980-81 1981-82	6,000 12,000 13,176 14,494		56
Hodgson, G.W. Dept. of Environmental Sciences Univ. of Calgary	EMRC	The potential of Arctic sediments - Part II Interaction of organic matter, Water and Mineral matrix in petroleum genesis.	1974-75	8,800		56
Hollobone Hibbert and Associates Limited London, England	SSC/ASC RCORMD/CRENOR	Assess critically the means for escape and survival in offshore exploratory drilling operations.	1983	49,865	(B.128)	56
Holman, P. Halifax, N.S.	SSC/ASC DFO/MPO	Research, draft and coordinate offshore oil/gas development documents in support of contingency plans of the Ocean Information Division of Ocean, Science and Surveys, Atlantic Region.	1983	2,000	(B.125)	56
Iceberg Management in Exploration, Production and Transportation St. John's, Nfld.	NSERCC/ CRSNGC	Conference Grants/Subventions pour conferences.	1983-84	4,400		56
Interdisciplinary Systems Limited Winnipeg, Man.	SSC/ASC EC	Study of resource use in the eastern Arctic as related to the proposed polar gas pipeline.	1976	19,618	(B.42)	56
Isaacson, M.S.Q. Dept. of Civil Engineering Univ. of British Columbia	NSERCC/ CRSNGC	Wave hydrodynamics and interaction with structures.	1977-78 1978-79 1979-80 1980-81	10,000 16,000 16,650 18,183		56
Isaacson, M.S.Q. Dept. of Civil Engineering Univ. of British Columbia	NSERCC/ CRSNGC	Design of offshore structures in shallow water.	1980-81 1981-82 1983-84	37,000 38,990 41,583		56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Isaacson, M.S.Q. Dept. of Civil Engineering Univ. of British Columbia	NSERCC/ CRSNGC	Wave interactions with offshore structures.	1981-82 1982-83 1983-84	23,000 26,565 28,159		56
James F. MacLaren Limited Edmonton, Alta.	SSC/ASC EC	Organization of meetings on environmental concerns relating to offshore oil and gas drilling and production for Department of Environment staff.	1980	14,090	(B.83)	56
J.C. Sproule and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Implementation of revisions to the computer program entitled Costing Study for Frontier Oil and Gas Production.	1976	570	(B.37)	56
Jones, J.M. Dept. of Mechanical Engineering Univ. of Calgary	NRCC/CNRC	Investigation in to possible failure modes of gas pipelines under Arctic and offshore conditions.	1977-78	5,000		56
Jones, J.M. Dept. of Mechanical Engineering Univ. of Alberta	NSERCC/ CRSNGC	The initiation of fracture in tough medium strength steels and the application of a leak-before-break criterion to the design of pipelines and thin walled pressure vessels.	1978-79 1979-80	5,500 322		56
Jordaan, I.J. Dept. of Civil Engineering Univ. of Calgary	NSERCC/ CRSNGC	Risk analysis of offshore projects in ice-infested waters.	1983-84	16,960		56
Kamphuis, J.W. and Brebner, A. Dept. of Civil Engineering Queen's Univ. at Kingston	NSERCC/ CRSNGC	Research on the hydraulic modelling of artificial sand islands.	1983-84	48,500		56
Krishnadev, M.R. Dép. des Mines et de la Métallurgie Univ. Laval	SSC/ASC EMRC	Assay and evaluation of the mechanical properties of commercial steel used in the construction of pipelines in the Arctic.	1976	55,990	(B.43)	56

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Krishnadev, M.R. Dép. des Mines et de la Métallurgie Univ. Laval	EMRC	The structure, weldability, and mechanical properties of high strength steels for safe and economic transportation of oil and gas from the Canadian Arctic by pipelines, tankers, and railways.	1977-78 1978-79	10,000 15,000		56
Krouse, H.R. Dept. of Physics Univ. of Calgary	NSERCC/ CRSNGC	Gas-oil-source rock correlation in Canadian frontier exploration.	1980-81 1981-82	26,600 27,404		56
Kuhlemeyer, R.L. Dept. of Civil Engineering Univ. of Calgary	NRCC/CNRC	1) Soil-pile interaction. 2) Optimization of machine foundation design for northern pipelines.	1974-75 1975-76 1976-77	7,000 7,985 8,190		56
Kuhlemeyer, R.L. Dept. of Civil Engineering Univ. of Calgary	NRCC/CNRC	Dual channel variable analog filter; accelerometer; charge amplifiers; low g accelerometers; measuring amplifier.	1974-75	5,700		56
L'Institut français du pétrole Hauts-de-Seine France	SSC/ASC EMRC	Etude du potentiel petrolifère des formations tertiaires, mésozoiques et paleozoiques, du bassin Sverdrup et du géosynclinal Franklin.	1974	12,000	(B.19)	56
Lavkulich, L.M. Vancouver, B.C.	SSC/ASC NEB/ONE	Collaboration in the study of environmental considerations relating to the construction of the Mackenzie Valley pipeline.	1974	5,000	(B.17)	56
Lielmezs, J. Dept. of Chemical Engineering Univ. of British Columbia	NRCC/CNRC NSERCC/ CRSNGC	1) Magnetic field effect on thermodynamic and transport properties of liquids. 2) Magneto-catalytic and external magnetic field influence on chemical reaction rates. 3) Fluid flow through freezing porous media. 4) Thermodynamic and transport property prediction and calculation for gases and liquids.	1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	22,350 24,227 25,681 28,235 31,002 34,102 38,500 40,810		56
Lielmezs, J. Dept. of Chemical Engineering Univ. of British Columbia	NSERCC/ CRSNGC	Laser-modified rayleigh interferometer system to study the diffusion through membranes under the influence of magnetic field.	1979-80	22,000		56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Lochhead Haggerty Engineering and Manufacturing Company Limited Burnaby, B.C.	SSC/ASC EMRC	Design, construction, and field testing of a prototype oil fired water line heater for surface diamond drilling operations in sub-zero weather.	1978	27,274	(B.68)	56
Mair, W.W. Victoria, B.C.	SSC/ASC EC	Review of resource management issues relating to hydrocarbon production and transportation from the Beaufort Sea - Mackenzie Delta Area.	1983	5,000	(B.121)	56
Matter, L. Dept. of Chemical Engineering Univ. of Calgary	NSERCC/ CRSNGC	1) Pressure analysis of fluid flow in petroleum reservoirs. 2) Multiphase flow in wellbores and pipelines.	1980-81	7,500		56
Miall, A.D. et al. Dept. of Geology Univ. of Toronto	NSERCC/ CRSNGC	Basin analysis of petroleum bearing strata.	1980-81 1981-82 1982-83	85,000 30,000 106,495		56
Michel, B. Dép. de Génie civil Univ. Laval	NDD/MDN DRB/CRD	Interaction de la glace avec les ouvrages offshore.	1974-75 1975-76	10,500 8,000		56
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC NRCC/CNRC	Unified analysis of offshore structures.	1983	20,000	(B.126)	56
Muggeridge, D.B. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Response of elastically similar gravity platform models to regular and irregular waves.	1979-80	8,500		56
Muggeridge, D.B. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Response of a file to irregular waves.	1978-79	7,500		56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Muggeridge, D.B. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Response of semisubmersible and compliant platforms to irregular waves.	1980-81 1981-82 1982-83	10,000 11,000 12,705		56
Muggeridge, D.B. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Response of offshore structure to waves and ice.	1983-84	18,444		56
Muggeridge, D.B., Arockiasamy, M.A. and Booton, M. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Digital signal analyzer.	1982-83	47,553		56
Muggeridge, D.B., Booton, M. and Russell, W. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Wave/Tow tank.	1978-79 1979-80 1980-81	10,000 10,350 11,364		56
Muggeridge, D.B. et al. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Tow tank dynamometer and ship model propulsion system.	1983-84	69,242		56
Nordco Limited St. John's, Nfld.	SSC/ASC NRCC/CNRC	Intermediate scale hydroelectric model of offshore structure - iceberg impact.	1983	50,000	(B.120)	56
Nordco Limited St. John's, Nfld.	SSC/ASC RCORMD/CRENOR	Review of ice information as input to design criteria, operating constraints, and emergency response capability for eastern Canada offshore exploratory drilling operations.	1983	75,045	(B.127)	56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Nordco Limited St. John's, Nfld.	SSC/ASC EC	Study of residual toxicity and debris from offshore well sites.	1983	134,200	(B.128)	56
Nova, An Alberta Corporation Calgary, Alta.	SSC/ASC EMRC	Development and evaluation of an all-position mechanized flux-cored arc welding system for the on site fabrication of off-shore oil and gas structures.	1983	68,000	(B.121)	56
Page, R.J.D. Trent Univ.	SSHRCC/ CRSHC	The Mackenzie Valley Pipeline Project: a case study in decision-making.	1978-79 1979-80	140 5,775		56
Piercy, G.R. Dept. of Metallurgy and Material Sciences McMaster Univ.	EMRC	Environmental cracking of line pipe steels in sour gas lines under Arctic conditions.	1977-78	6,000		56
Pufahl, D.E. Dept. of Civil Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	Protection of buried pipelines from scour by Arctic sea ice.	1979-80 1980-81 1981-82	8,000 8,784 9,662		56
Robertson Nickerson Limited Ottawa, Ont.	SSC/ASC EMRC	Study to examine the technology and market feasibility of robotics systems for undersea inspection and repair to offshore drilling and production equipment.	1983	47,000	(B.119)	56
Safety Management for Offshore Operations St. John's, Nfld.	NSERCC/ CRSNGC	Conference Grants/Subventions pour conferences.	1983-84	3,500		56
Seaconsult Limited St. John's, Nfld.	SSC/ASC RCORMD/CRENOR	Study to assess the adequacy of available oceano-graphic information for eastern Canada offshore exploratory drilling operations.	1983	39,000	(B.127)	56
Seaconsult Limited St. John's, Nfld.	SSC/ASC RCORMD/CRENOR	Study to assess the adequacy of observation and weather prediction services provided in support of eastern Canada offshore drilling operations.	1983	33,372	(B.127)	56
Shields, D.H., Domaschuk, L. and Man, C.S. Dept. of Civil Engineering Univ. of Manitoba	NSERCC/ CRSNGC	Determining properties of submarine permafrost for oil and gas exploration and development.	1982-83 1983-84	70,200 70,596		56

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Singh. M.C. Dept. of Mechanical Engineering Univ. of Calgary	NSERCC/ CRSNGC	Wave propagation in solids and crack propagation in pipelines.	1981-82 1982-83 1983-84	11,000 12,705 13,467		56
Smith, D.W. Dept. of Botany and Genetics Univ. of Guelph	INAC/AINC	Biological changes resulting from drilling fluid disposal in the Canadian Arctic.	1979-80 1980-81	105,704 92,223		56
Smith, J.W. Dept. of Chemical Engineering Univ. of Toronto	NSERCC/ CRSNGC	Heat, mass and momentum transfer studies applied to transportation of hydrocarbon resources in the Arctic, the recover and detection of sulphurous compounds and occupational health engineering, including the properties and control of electrolytic cell room aerosols.	1980-81	17,500		56
Smith, J.W. Dept. of Chemical Engineering Univ. of Toronto	NSERCC/ CRSNGC	Heat, mass and momentum transfer applied to the transportation of gas from the Arctic, the removal of particulates and sulphurous compounds in packed beds, properties and control of acid aerosols.	1981-82 1982-83 1983-84	17,500 20,213 21,426		56
Smith, W.M. Dept. of Geography Carleton Univ. Ottawa, Ont.	SSC/ASC INAC/AINC	Computer simulation of the thermal effects of drilling fluid disposal in permafrost regions.	1977	26,226	(B.51)	56
Stanley Associates Engineering Limited Edmonton, Alta.	SSC/ASC EC	Preparation of a draft environmental code to protect the environment during the design, fabrication and operation of the proposed Mackenzie Valley gas pipeline.	1976	34,655	(B.36)	56
Stelco Incorporated Hamilton, Ont.	SSC/ASC EMRC	Determination of the ability of Stelco ingot and strand cast structural plate to meet the mechanical property requirements for Canadian offshore structures and Arctic ships.	1983	282,510	(B.119)	56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Stelco Incorporated Hamilton, Ont.	SSC/ASC EMRC	Effect of niobium on heat affected zone toughness of Arctic grade line pipe.	1983	46,000	(B.123)	56
Strilaeff, P.W. North Vancouver, B.C.	SSC/ASC OFE/MPE	Development of a hydrologic assessment program of the impact of pipelines.	1977	24,500	(B.52)	56
Techno Scientific Incorporated Downsview, Ontario	SSC/ASC EMRC	Ultrasonic monitoring of crack extension by corrosion fatigue in oil pipelines.	1981	13,685	(B.102)	56
Templeton Engineering Company Winnipeg, Man.	SSC/ASC EC	Presentation of a report on environmental protection activities related to the proposed Mackenzie Valley gas pipeline.	1976	800	(B.39)	56
Twynam, N.J. Edmonton, Alta.	SSC/ASC EC	Computer bibliography of literature relevant to the Beaufort Sea hydrocarbon production zone and associated transportation corridor.	1982	9,000	(B.117)	56
Vermeulen F. Dept. of Electrical Engineering Univ. of Alberta	NSERCC/ CRSNGC	1) Use of electromagnetic heating for the in-situ recovery of fossil fuels. 2) Electrothermic thawing of permafrost for relief of stresses due to frost heaving in chilled gas pipelines.	1981-82 1982-83 1983-84	22,600 26,103 27,669		56
Walker, G. Dept. of Mechanical Engineering Univ. of Calgary	EMRC	Flexibility analysis of gas pipeline in muskeg area.	1976-77 1977-78 1978-79	7,500 7,790 8,800		56
Warner, J.L. Dept. of Mechanical Engineering Nova Scotia Technical College	EMRC	Fatigue considerations for offshore pipelines.	1980-81 1981-82 1982-83	19,980 20,000 20,000		56
Welding Institute of Canada Oakville, Ontario	SSC/ASC EMRC	Design, fabrication and testing of an ultrasonic scanner capable of measuring the depth of a fatigue crack at the toe of a longitudinal weld in a crude oil pipeline.	1980	16,566	(B.85)	56

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Western Research and Development Calgary, Alta.	SSC/ASC EC	Examination into the emission of nitrogen oxides from pipeline compressor stations.	1979	95,500	(B.76)	56
Williams, P.J. Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Study of climatic change and its implications for northern pipelines.	1981	35,104	(B.102)	56
Williams, P.J. Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Investigation of soil freezing in association with a buried, chilled pipeline in a large scale facility - Phase I-II	1981 1982	101,637 115,641	(B.103) (B.117)	56
Williams, P.J. Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Feasibility study for stresses in a pipeline buried in a freezing soil.	1982	46,182	(B.108)	56
Williams, P.J. Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Analysis in stresses developed in pipelines buried in freezing ground.	1983	40,314	(B.119)	56
Williams, P.J. and Smith, M.K. Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Investigation of soil freezing in association with a buried chilled pipeline, in a large scale test facility - phase III.	1983	125,536	(B.127)	56

PERMAFROST, SOILS, PERIGLACIAL FEATURES / PERGÉLISOL, SOLS, PHÉNOMÈNES PÉRIGLACIAIRES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Archibald, J.F. Dept. of Mining Engineering Queen's Univ. at Kingston	NSERCC/ CRSNGC	The behaviour of frozen backfill in underground mines.	1983-84	10,600		57
Archibald, J.F., Nantel, J.H. and Meech, J.A. Dept. of Mining Engineering Queen's Univ. at Kingston	NSERCC/ CRSNGC	Cold environment laboratory.	1983-84	30,000		57
Ballard, T.M. Dept. of Soil Science Univ. of British Columbia	NRCC/CNRC	Alpine soil studies.	1974-75	5,000		57
Barrodale Computing Services Limited Victoria, B.C.	SSC/ASC DFO/MPO	Statistical analysis of pingo-like features (P.L.F.) in the Beaufort Sea.	1979	3,700	(B.81)	57
Bauer, A. Dept. of Mining Engineering Queen's Univ. at Kingston	SSC/ASC NDD/MDN	Continuation of research in cratering, ditching and related tasks in frozen soils using slurry and other explosives.	1974	20,614	(B.20)	57
Bauer, A. Dept. of Mining Engineering Queen's Univ. at Kingston	SSC/ASC NDD/MDN	Studies on the cratering performance of specific explosives in frozen ground.	1976	30,000	(B.37)	57
Bunting, B.T. Dept. of Geography McMaster Univ.	NRCC/CNRC	Micromorphological character of illuviation phenomena in Canadian fine-textured soils from moist Arctic to moist temperate conditions in relation to mineral alteration and soil pore geometry.	1974-75	4,900		57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Canadian National Railway Company Montreal, Que.	SSC/ASC TC	Study of permafrost conditions requiring continuing maintenance on the Hudson Bay line of the Canadian National Railway.	1976	28,000	(B.41)	57
Carson, M.A. Dept. of Geography McGill Univ.	EMRC	Springtime pore pressures and landslide development in clay slopes with frozen slope surfaces.	1980-81	439		57
Coast Pilot Limited Sidney, B.C.	SSC/ASC DFO/MPO	Study of pingo-like features detected in the Beaufort Sea.	1979	3,981	(B.80)	57
Coulter, D.M. Dept. of Mechanical Engineering Royal Military College of Canada	NDD/MDN DRB/CRD	Thermal effects in permafrost.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81	7,500 6,500 4,400 5,000 1,100 2,000 2,000		57
Coulter, D.M. Dept. of Mechanical Engineering Royal Military College	NDD/MDN DRB/CRD	Geothermal studies in continuous and discontinuous permafrost.	1981-82	5,000		57
Crampton, C.B. Dept. of Geography Simon Fraser Univ.	NRCC/CNRC	Shear patterns in permafrost terrain soils.	1974-75 1975-76 1976-77	5,650 5,365 4,500		57
Crampton, C.B. Dept. of Geography Simon Fraser Univ.	NSERCC/ CRSNGC	A study of synergistic interactions involving permafrost in a biophysical classification of Arctic and subarctic terrain.	1977-78 1978-79 1979-80	6,150 6,519 7,747		57
D&S Petrophysical Consultants Limited Calgary, Alta.	SSC/ASC EMRC	Study of well-logs in the MacKenzie Delta-Beaufort Sea area to outline perma-frost thickness or gas hydrate occurrence, or both.	1983	49,000	(B.120)	57
École Polytechnique Montréal, Que.	SSC/ASC NRCC/CNRC	Étude en crue de déterminer sur les lieux les propriétés de résistance et les déformations du sol gelé.	1978	26,345	(B.65)	57
Emmerson, G.S. Dept. of Engineering Sciences Univ. of Western Ont.	NSERCC/ CRSNGC	Leidenfrost studies.	1978-79	4,000		57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Evans, L.J. Dept. of Land Resources Science Univ. of Guelph	NRCC/CNRC	Quantitative studies in pedogenesis on northern soils.	1976-77 1977-78	6,000 6,150		57
Finn, W.D.L. Fac. of Applied Science Univ. of British Columbia	NSERCC/ CRSNGC	Temperature controlled enclosure for dynamic testing of frozen soils.	1978-79	16,862		57
Fransham, P.B. Dept. of Geology Univ. of Waterloo	EMRC	Ultrasonic testing and the evaluation of the mechanical behaviour of frozen soils.	1979-80	8,000		57
Fransham, P.B. Dept. of Geology Univ. of Waterloo	EMRC	Acoustic and mechanical behaviour of frozen soils.	1980-81	10,000		57
Fransham, P.B. and Greenhouse, J. Dept. of Geology Univ. of Waterloo	SSC/ASC EMRC	Geophysical borehole logging techniques for the identification of ground ice in permafrost soils.	1980	19,692	(B.90)	57
Fredlund, D.G. Dept. of Civil Engineering Univ. of Saskatchewan	NRCC/CNRC	Behaviour of unsaturated and partly frozen soils.	1974-75	9,400		57
French Arctic Consultants Ltd. Ottawa, Ont.	SSC/ASC NRCC/CNRC	Review, evaluation and analysis of permafrost data.	1983	8,050	(B.119)	57
French, H.M. Dept. of Geography and Dept. of Geology Univ. of Ottawa	NRCC/CNRC	Thermokarst processes, Eastern Banks Island, western Arctic.	1974-75 1975-76	4,850 5,535		57
French, H.M. Dept. of Geography and Dept. of Geology Univ. of Ottawa	NRCC/CNRC NSERCC/ CRSNGC	Thermokarst, ground ice and weathering studies, Western Arctic Islands.	1976-77 1977-78 1978-79	6,500 7,046 7,469		57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
French, H.M. Dept. of Geography and Dept. of Geology Univ. of Ottawa	SSC/ASC EMRC	Investigate the distribution of permafrost on the Sabine peninsula of Melville Island, Northwest Territories and its relationships to the glacial and sea-level history.	1981	7,000	(B.101)	57
French, H.M. Dept. of Geography and Dept. of Geology Univ. of Ottawa	SSC/ASC EMRC	Permafrost and ground ice investigations in Mayo and other areas of the northern Yukon.	1983	25,720	(B.127)	57
Fritz, P. Dept. of Earth Sciences Univ. of Waterloo	SSC/ASC EMRC	Study on environmental isotopes in permafrost related waters.	1976	4,418	(B.42)	57
Fritz, P. Dept. of Earth Sciences Univ. of Waterloo	SSC/ASC EMRC	Investigation of isotope effects occurring during the formation of permafrost.	1977	14,872	(B.54)	57
Fritz, P. Dept. of Earth Sciences Univ. of Waterloo	SSC/ASC EMRC	Continuation of laboratory and field investigation of isotope effects occurring during the formation of permafrost.	1978 1979 1980	19,940 20,000 22,999	(B.69) (B.76) (B.88)	57
Fritz, P. Dept. of Earth Sciences Univ. of Waterloo	SSC/ASC EMRC	Study of the environmental isotopes of permafrost related waters along the Alaska highway pipeline route.	1981	9,256	(B.100)	57
Fritz, P. Dept. of Earth Sciences Univ. of Waterloo	EMRC	Continuation of laboratory and field investigation of isotope effects occurring during the formation of permafrost.	1981-82	19,993		57
Fritz, P. Dept. of Earth Sciences Univ. of Waterloo	SSC/ASC EMRC	Isotope investigations in permafrost regions.	1982	11,827	(B.113)	57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Gaskin, P.N. Dept. of Civil Engineering Queen's Univ. at Kingston	NRCC/CNRC	Stress-strain characteristics of frozen soils.	1974-75 1975-76	4,475 3,415		57
Gaskin, P.N. Dept. of Civil Engineering Queen's Univ. at Kingston	NRCC/CNRC	Effect of pressure and temperature gradient on frost heaving.	1977-78	3,150		57
Gaskin, P.N. Dept. of Civil Engineering Queen's Univ. at Kingston	NSERCC/ CRSNGC	1) Effect of pressure and temperature gradient on frost heaving. 2) Repeated loading of soil.	1978-79 1979-80 1980-81 1981-82 1982-83	3,800 5,000 10,000 11,000 12,705		57
Gaskin, P.N. Dept. of Civil Engineering Queen's Univ. at Kingston	NSERCC/ CRSNGC	Frost heave and thaw weakening of soils	1983-84	11,660		57
Geo-Physi-Con Company Limited Calgary, Alta.	SSC/ASC EMRC	Testing and evaluation of new transient electromagnetic geophysical methodology for detection of the permafrost base in thick permafrost areas.	1983	49,400	(B.121)	57
Geo-Physi-Con Company Limited Calgary, Alta.	SSC/ASC EMRC	Testing and evaluation of new transient E.M. geophysical methodology for the delineation of permafrost base in the high Arctic.	1983	60,840	(B.123)	57
Geocon Incorporated Calgary, Alta.	SSC/ASC NRCC/CNRC	Thermal behaviour of an Arctic earthfill tailings dam Contwoyto Lake, Northwest Territories.	1983	15,226	(B.118)	57
Geomarine Associates Limited Halifax, N.S.	SSC/ASC DFO/MPO	Study on the acoustic target strength of pingo-like features found in the Beaufort Sea.	1979	4,000	(B.81)	57
Gillott, J.E. Dept. of Civil Engineering Univ. of Calgary	NDD/MDN DRB/CRD	Microstructural investigation of frost action in building materials and soils.	1974-75 1975-76	8,300 8,000		57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Gray, D.M. Dept. of Hydrology Univ. of Saskatchewan	EC	Infiltration into frozen and partially frozen soils.	1980-81 1981-82 1982-83	15,000 18,000 18,000	57
Gray, J.T. Dép. de Géographie Univ. de Montréal	NRCC/CNRC	Projet 1) Régime thermique dans le pergélisol et le mollisol sur la Côte sud-ouest de la Baie d'Ungava Projet 2) Le régime thermique des sols sur les sommets de Mont Jacques Cartier et Mont Albert, Gaspésie.	1977-78	4,150	57*
Gray, J.T. Dép. de Géographie Univ. de Montréal	EMRC	Le pergélisol et les masses de glace dans le sol dans le géosynclinal du Labrador, sur la côte ouest de la Baie d'Ungava.	1977-78	4,000	57*
Gray, J.T. Dép. de Géographie Univ. de Montréal	EMRC	Permafrost studies in the forest tundra ecotone in the Labrador trough on the S.W. coast of Ungava Bay.	1978-79	4,500	57*
Gray, J.T. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Permafrost and active layer studies applied to two critical areas of Northern Quebec and Gaspésie.	1978-79	3,500	57*
Gray, J.T. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Permafrost and active layer studies in sub-Arctic and mountain environments of southern and Central Quebec.	1979-80	5,000	57*
Gray, J.T. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Studies on perennially and seasonally frozen ground in Nouveau Quebec and Gaspésie.	1980-81	11,500	57*
Gray, J.T. Dep. de Géographie Univ. de Montréal	EMRC	Geothermal modelling of deep drill hole data aimed at reconstruction of late Quaternary environments in northern Quebec and Gaspésie.	1981-82 1982-83 1983-84	6,500 8,000 5,700	57*
Gray, J.T. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Permafrost studies and geothermal modelling in Northern Quebec and Gaspésie.	1981-82 1982-83 1983-84	15,000 18,000 19,080	57*
Gray, J.T. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Colour printer.	1982-83	24,900	57*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Gray, J.T. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Permafrost and shore process studies in Northern Quebec.	1982-83	5,000		57*
Gray, J.T. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Permafrost and active layer studies in Northern Quebec.	1983-84	4,240		57*
Hanley, T.O. Dept. of Physics Univ. of Regina	NSERCC/ CRSNGC	Electrical potentials in freezing soils.	1978-79 1979-80	3,500 3,000		57
Hardy Associates (1978) Limited Calgary, Alta.	SSC/ASC EMRC	Design of a controlled environmental test facility for cold regions soils research in Canada - phase I.	1982	45,850	(B.110)	57
Hardy Associates (1978) Limited Calgary, Alta.	SSC/ASC EMRC	Study creep behaviour of frozen saline soils.	1983	29,240	(B.121)	57
Hardy Associates (1978) Limited Calgary, Alta.	SSC/ASC EMRC	Illisaravik drilling program, winter, 1983.	1983	170,564	(B.122)	57
Hardy Associates (1978) Limited Calgary, Alta.	SSC/ASC EMRC	Study of well logs in the Arctic islands to outline permafrost thickness and/or gas hydrate occurrence.	1983	42,495	(B.127)	57
Harris Environmental Research Limited Calgary, Alta.	SSC/ASC EMRC	Design, establish and monitor a test site in the northern Canadian Rocky Mountains for the study of alpine permafrost conditions.	1981	77,471	(B.103)	57
Harris Environmental Research Limited Calgary, Alta.	SSC/ASC NRCC/CNRC	Alpine permafrost observations in Rocky Mountains, Alberta.	1983	12,000	(B.121)	57
Harris Environmental Research Limited Calgary, Alta.	SSC/ASC EMRC	Maintenance and monitoring of alpine permafrost test site, northern Canadian Rocky Mountains.	1983	18,420	(B.124)	57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Harris, S.A. Dept. of Geography Univ. of Calgary	NSERCC/ CRSNGC	Ecology dynamics and distribution of permafrost and associated landforms in the Cordillera and of shelf ice on the Ward Hunt ice shelf.	1982-83	7,200		57
Harris, S.A. Dept. of Geography Univ. of Calgary	SSC/ASC NRCC/CNRC	Compilation of terms used in permafrost science - engineering.	1983	3,450	(B.124)	57
Hedlin, R.A. and Cho, C.M. Dept. of Soil Science Univ. of Manitoba	SSC/ASC EC	A study of the transformation of nitrogen bound soils of the northern coniferous forest.	1974	18,000	(B.15)	57
Hendershot, W.H. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Genesis and classification of cryosols.	1982-83 1983-84	10,000 10,600		57*
Jensen, O.G. Dept. of Mining and Metallurgical Engineering McGill Univ.	EMRC	Wave-tilt applications to perma-frost exploration.	1976-77	4,000		57
Johnson, P.G. Dept. of Geography Univ. of Ottawa	NRCC/CNRC	Mass movement and degradation processes in a mountain environment.	1974-75 1975-76 1976-77	5,200 5,930 6,084		57
Johnson, P.G. Dept. of Geography Univ. of Ottawa	NRCC/CNRC	Parts of remote microclimatic and geotechnical field stations.	1974-75	10,000		57
Johnson, P.G. Dept. of Geography Univ. of Ottawa	NSERCC/ CRSNGC	Mass movement in Alpine environments. The application of catastrophic and steady state models of flow.	1977-78 1978-79 1979-80	7,650 8,109 8,393		57
Johnson, P.G. Dept. of Geography Univ. of Ottawa	NSERCC/ CRSNGC	Mass movement in alpine environments: structure, deformation rates and age.	1980-81 1981-82 1982-83	9,450 10,450 12,070		57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Johnson, P.G. Dept. of Geography Univ. of Ottawa	NSERCC/ CRSNGC	Equipment for physical environmental assessment.	1980-81	25,000	57
Johnson, P.G. Dept. of Geography Univ. of Ottawa	NSERCC/ CRSNGC	Structure, flow mechanisms and paleoclimatic significance of Alpine mass movement forms.	1982-83	4,500	57
Johnson, P.G. Dept. of Geography Univ. of Ottawa	NSERCC/ CRSNGC	Paraglacial terrain development by mass movement processes. The control of hydrological systems.	1983-84	10,600	57
Kay, B.D. Dept. of Land Resource Science Univ. of Guelph	NRCC/CNRC NSERCC/ CRSNGC	Quantitative characteristics of mass and heat transfer in freezing soils.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	8,000 10,725 11,000 11,924 15,000 15,525 17,046 19,000 21,945 23,262	57
Kay, B.D. Dept. of Land Resource Science Univ. of Guelph	EMRC	Instrumentation development for in situ measurement of unfrozen water and ice content of frozen soils.	1975-76	18,000	57
Kay, B.D. Dept. of Land Resource Science Univ. of Guelph	EMRC	Measurement and significance of unfrozen water content during freezing of soils under field conditions.	1976-77	5,000	57
Kay, B.D. Dept. of Land Resource Science Univ. of Guelph	EC	Development of a model to describe subsurface transport of solutes, as a consequence of freezing conditions.	1976-77 1977-78 1978-79	10,000 9,000 13,500	57
Kiefte, H. Dept. of Physics Memorial Univ. of Newfoundland	EMRC	Continued study of clathrate and high pressure ice.	1983-84	113,471	57
King, M.S. Dept. of Geological Sciences Univ. of Saskatchewan	EMRC	Thermal conductivity of permafrost materials.	1977-78 1978-79 1979-80	3,600 5,600 5,500	57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Komex Consultants Limited Calgary, Alta.	SSC/ASC EMRC	Review of methodology for laboratory analysis and testing of permafrost.	1982	57,636	(B.111)	57
Konishchev, V.N. Moscow State Univ., U.S.S.R.	SSHRCC/ CRSHC	Cryogenic research and northern development (Vancouver, Ottawa, Montreal).	1979-80	-		57
Laba, J.T. Dept. of Civil Engineering Univ. of Windsor	NRCC/CNRC	Forces exerted on rigid retaining walls by a confined frozen soil layer.	1974-75 1975-76 1976-77 1977-78	2,975 4,875 5,000 5,420		57
Ladanyi, B. Centre d'Ingé- nierie nordique Ecole Polytechnique	SSC/ASC NRCC/CNRC	Étude sur le terrain de la résistance et de la déformation du sol gelé.	1977	19,910	(B.55)	57
Langleben, M.P. Dept. of Physics McGill Univ.	EMRC	Analysis of date from field studies of the Arctic sea ice and the water column beneath the sea ice at Pond Inlet, Northwest Territories.	1983-84	17,912		57
Lewkowicz, A.G. Dept. of Geography Univ. of Toronto	NSERCC/ CRSNGC	Measurement and simulation of permafrost degradation on slopes, Banks Island.	1983-84	20,140		57
Lunardini, V.J. Dept. of Mechanical Engineering Univ. of Ottawa	NSERCC/ CRSNGC	Energy exchange during permafrost freeze/thaw.	1979-80	6,000		57
M.J. O'Connor and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Conduct study of the geology and engineering implications of off-shore permafrost.	1981	75,000	(B.104)	57
M.J. O'Connor and Associates Limited Calgary, Alta.	SSC/ASC EMRC	Study of the regional distribution and engineering implications of subsea permafrost in the Canadian Beaufort Sea.	1983	95,000	(B.121)	57
Mackay, J.R. Dept. of Geography Univ. of British Columbia	NRCC/CNRC	Permafrost and the growth of ground ice, western Arctic Coast and western Canadian cordillera.	1974-75 1975-76 1976-77 1977-78 1978-79	9,000 10,265 23,500 25,474 27,002		57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Mackay, J.R. Dept. of Geography Univ. of British Columbia	NSERCC/ CRSNGC	Origin of permafrost and ground ice, Western Arctic, and alpine permafrost in B.C.	1979-80 1980-81 1981-82 1982-83	27,300 29,975 32,973 33,050		57
Man, C.S. Dept. of Civil Engineering Univ. of Manitoba	NSERCC/ CRSNGC	Towards a unified continuum theory for the thermomechanical behaviour of permafrost.	1982-83	10,400		57
Man, C.S. Dept. of Civil Engineering Univ. of Manitoba	NSERCC/ CRSNGC	Frozen soils as multiphase (immiscible) mixtures: 1) Creep properties.	1983-84	12,614		57
Michel, F.A. Dept. of Geology Carleton Univ.	EMRC	Nature and history of ground ice, central Yukon.	1983-84	9,700		57
Mitchell, R.J. Dept. of Civil Engineering Queen's Univ.	NDD/MDN DRB/CRD	Strength of frozen soils.	1974-75	7,000		57
Moore, T.R. Dept. of Geography McGill Univ.	NRCC/CNRC	1) A study of the soils of subarctic and arctic zones of Quebec/Labrador and Baffin Island. 2) The accumulation and decomposition of soil organic matter in a Southern Quebec forest.	1974-75	3,775		57*
Moore, T.R. Dept. of Geography McGill Univ.	NSERCC/ CRSNGC	Soil forming processes and opal phytoliths in arctic and subarctic soils.	1979-80 1980-81	6,200 8,000		57*
Moore, T.R. Dept. of Geography McGill Univ.	NSERCC/ CRSNGC	Soil forming processes, opal phytoliths and archaeological features in boreal, subarctic and arctic soils.	1981-82	11,000		57*
Moore, T.R. Dept. of Geography McGill Univ. Montreal, Que.	SSC/ASC EMRC	Preparation of a permafrost data file in computer-retrievable form and to assess the current status of permafrost knowledge in the Schefferville region of Quebec.	1982	33,506	(B.114)	57*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC EMRC	Compilation of information on investigation and testing procedures relevant to slope stability in permafrost regions as well as to draft appendices and to conduct field surveys, investigations and tests (as a member of the Co-operative Level "B" Pit Slope Project 1972-77, third year).	1974	66,178	(B.14)	57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	NDD/MDN DRB/CRD	Slope stabilization in permafrost.	1974-75	6,000		57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	NRCC/CNRC	1. Engineering properties of stiff clays and mudstones. 2. Design and behaviour of dam foundations. 3. Thaw-consolidation phenomena in permafrost.	1974-75	17,000		57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC NDD/MDN	Investigation on explosive cratering in permafrost near Inuvik, Northwest Territories.	1975	24,667	(B.33)	57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	NRCC/CNRC	1) Geotechnical behaviour of frozen ground and ice 2) Geotechnical behaviour of Athabasca tar sand 3) Geotechnical behaviour of stiff clays and shales.	1975-76 1976-77 1977-78	29,250 30,000 32,520		57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	NDD/MDN DRB/CRD	Investigation on explosive cratering in permafrost near Inuvik, N.W.T.	1976-77	5,807		57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC NDD/MDN	Continuation study covering an investigation on explosive cratering in permafrost near Inuvik, NWT.	1977	24,913	(B.49)	57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC NDD/MDN	Study on explosive cratering in permafrost.	1977	23,478	(B.51)	57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	NDD/MDN DRB/CRD	Permafrost investigation.	1977-78	4,513		57

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Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC NDD/MDN	Investigation of the utilization of activities in frozen ground for military purposes.	1978	10,045	(B.58)	57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	NSERCC/ CRSNGC	1) Geotechnical behavior of frozen ground. 2) Geotechnical behavior of Athabasca oil sands. 3) Failure and movement mechanisms in landslides. 4) Cavities in jointed rock.	1978-79 1979-80 1980-81	40,000 41,400 45,454		57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC DNN/MDN	Investigation pertaining to ice demolition.	1979	9,964	(B.78)	57
Morgenstern, N.R. Dept. of Civil Engineering Univ. of Alberta	NSERCC/ CRSNGC	Geotechnical behaviour of permafrost, oil sands, and other natural materials.	1981-82 1982-83 1983-84	52,000 60,060 63,664		57
Nantar Engineering Limited Kingston, Ont.	SSC/ASC EMRC	Behaviour of frozen backfill in underground mines.	1982	22,445	(B.117)	57
Neave, K.G. Echo Bay, Ont.	SSC/ASC EMRC	Determination of the thickness and the related geotechnical properties of the permafrost beneath the southern Beaufort Sea by seismic record analysis.	1975	37,400	(B.28)	57
Nicholson, F.H. Dept. of Geography McGill Univ.	NRCC/CNRC	Studies in the Schefferville, P.Q. area: an investigation of the problems associated with permafrost amelioration, a study of permafrost distribution, hydrological budget studies.	1974-75	4,900		57*
Nicholson, F.H. Dept. of Geography McGill Univ.	NRCC/CNRC	Permafrost studies in the Schefferville area - thermal amelioration, supra permafrost groundwater, and effects of snowcover.	1975-76	2,925		57*
Nicholson, F.H. Dept. of Geography McGill Univ.	NRCC/CNRC	Prediction of Permafrost Distribution for Subarctic Mining Operations.	1974-75 1975-76	26,095 30,200		57*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Norum, D.I. Dept. of Agriculture Engineering Univ. of Saskatchewan	NRCC/CNRC	Heat and mass transfer in soil profiles under frozen and unfrozen conditions.	1974-75 1975-76 1976-77 1977-78	4,475 4,390 5,000 4,650	57
Osler, J.C. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	NDD/MDN DRB/CRD	Thaw stability of permafrost.	1975-76	3,000	57
Pattie, D.R. School of Engineering Univ. of Guelph	NRCC/CNRC	Heat and mass transmission through porous material into a low temperature environment.	1974-75 1975-76 1976-77	4,000 4,565 4,688	57
Pawluk, S. Dept. of Soil Science Univ. of Alberta	NRCC/CNRC	1) Heavy metal and trace elements in groundwater, plants and soils. 2) Micromorphological investigations of Arctic and alpine soils. 3) Weathering of mixed layer clays. 4) Unique melanic brunisols in the embarass Portage region.	1974-75 1975-76	16,000 18,250	57
Protz, R. Dept. of Land Resource Science Univ. of Guelph	NRCC/CNRC	1) Quantification of soil variability (Northern Ontario) 2) Quantification of initial chemical changes in various soils 3) Quantification of soil structure 4) Computor modelling of soil development.	1974-75 1975-76 1976-77	12,830 14,635 15,011	57
Protz, R. Dept. of Land Resource Science Univ. of Guelph	NSERCC/ CRSNGC	1) Genesis of Northern Ontario Gleysolic, Podzolic and organic soils 2) Quantification of chemical and physical changes on individual mineral grains during soils genesis 3) Quantification of soil structure 4) Computer modelling of soil development.	1977-78	10,150	57
Protz, R. Dept. of Land Resource Science Univ. of Guelph	NSERCC/ CRSNGC	1) Genesis of Northern Ontario gleysolic, podzolic, cryosolic and organic soils. 2) Quantification of chemical and physical changes on individual mineral grains during soil genesis. 3) Quantification of soil structure.	1978-79 1979-80 1980-81	5,000 9,500 9,500	57
Protz, R. Dept. of Land Resource Science Univ. of Guelph	NSERCC/ CRSNGC	1) Genesis and classification of Northern Ontario gleysolic, podzolic, regosolic and organic soils.	1981-82	7,000	57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Protz, R. Dept. of Land Resource Science Univ. of Guelph	NSERCC/ CRSNGC	Pedological research.	1982-83	3,000		57
R.M. Hardy and Associates Limited Edmonton, Alta.	SSC/ASC NDD/MDN	Investigation on explosive cratering in permafrost near Inuvik, Northwest Territories.	1978	29,598	(B.59)	57
Rutherford, G.K. Dept. of Geography Queen's Univ. at Kingston	NSERCC/ CRSNGC	Properties and distribution of soils of the Canadian Shield.	1978-79	5,000		57
Sego, D.C. Dept. of Civil Engineering Univ. of Alberta	NSERCC/ CRSNGC	Deformation behaviour of frozen soil.	1980-81 1981-82 1982-83	8,500 9,350 10,799		57
Sego, D.C. Dept. of Civil Engineering Univ. of Alberta	NSERCC/ CRSNGC	Strength and deformation of frozen soil.	1983-84	12,720		57
Seguin, M.K. Dép. de Géologie Univ. Laval	NDD/MDN DRB/CRD	Permafrost discontinu dans le Nord du Québec.	1975-76	5,000		57*
Shields, D.H. and Domaschuk, L. Dept. of Civil Engineering Univ. of Manitoba	NSERCC/ CRSNGC	In situ deformation properties of undersea permafrost.	1982-83 1983-84	70,200 70,596		57
Shields, D.H., Domaschuk, L. and Man, C.S. Dept. of Civil Engineering Univ. of Manitoba	NSERCC/ CRSNGC	Determining properties of submarine permafrost for oil and gas exploration and development.	1982-83 1983-84	70,200 70,596		57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Smith, M.W. Dept. of Geography Carleton Univ. Ottawa, Ont.	SSC/ASC INAC/AINC	Computer prediction of the thermal effects of sumps in permafrost.	1976	16,164	(B.38)	57
Smith, M.W. Dept. of Geography Carleton Univ. Ottawa, Ont.	SSC/ASC EMRC	Use of time-domain reflectometry for the measurement of unfrozen water content in frozen soils.	1979	5,653	(B.71)	57
Smith, M.W. Geotechnical Science Laboratories Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Investigation of frozen soils using time-domain reflectometry.	1979	25,267	(B.75)	57
Smith, M.W. Geotechnical Science Laboratories Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Investigation of freezing soils using time domain reflectometry - phase II.	1980	27,986	(B.87)	57
Smith, M.W. Dept. of Geography Carleton Univ.	NSERCC/ CRSNGC	Thermal properties of freezing soils.	1980-81 1981-82	7,500 4,960		57
Smith, M.W. Geotechnical Science Laboratories Dept. of Geography Carleton Univ.	EMRC	Investigate frozen and freezing ground using the time domain reflectometry technique.	1981-82	30,150		57
Smith, M.W. Geotechnical Science Laboratories Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Field and laboratory studies of soil freezing moisture migration and soil heaving.	1982	10,674	(B.116)	57
Smith, M.W. Dept. of Geography Carleton Univ.	NSERCC/ CRSNGC	Determination of ice content of frozen soils.	1982-83	9,000		57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Smith, M.W. Geotechnical Science Laboratories Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Continuation study on the investigation of permafrost and change of climate.	1983	85,807	(B.124)	57
Smith, M.W. and Patterson, D.E. Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Phase composition of a submarine permafrost.	1983	28,638	(B.124)	57
Torrence, J.K. Dept. of Geography Carleton Univ.	SSC/ASC EC	Continuing research into water migration phenomena in freezing soil columns.	1975	21,512	(B.31)	57
Torrence, J.K. Geotechnical Science Laboratory Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Investigation of moisture movement and generated soil stresses in frozen ground.	1982	19,823	(B.116)	57
tti Geotechnical Resources Limited Calgary, Alta.	SSC/ASC EMRC	Collect and collate all available subsurface temperature observations from Arctic wells.	1983	41,450	(B.120)	57
Valsangkar, A.J. Dept. of Civil Engineering Univ. of New Brunswick	NSERCC/ CRSNGC	Soil structure interaction peats and organic soils.	1982-83	13,000		57
Williams, P.J. Dept. of Geography Carleton Univ.	SSC/ASC EC	Investigation into water migration phenomena in freezing soil columns.	1974	19,998	(B.20)	57
Williams, P.J. Dept. of Geography Carleton Univ.	EC	Investigation into water migration phenomena in freezing soil columns.	1975-76 1976-77	21,152 360		57
Williams, P.J. Dept. of Geography Carleton Univ.	SSC/ASC DFE/MPE	Study of water migration phenomena in frozen soil columns.	1977	20,242	(B.57)	57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Williams, P.J. Dept. of Geography Carleton Univ.	EC	Laboratory investigations of moisture migration in frozen ground.	1977-78	2,500		57
Williams, P.J. Dept. of Geography Carleton Univ.	EC	Study of water migration phenomena in frozen soil columns.	1978-79	6,857		57
Williams, P.J. Geotechnical Science Laboratory Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Assessment of frost heave potential of already frozen ground.	1979 1980	22,557 23,735	(B.75) (B.87)	57
Williams, P.J. Geotechnical Science Laboratory Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Study the processes of water migration in frozen soil.	1981	30,319	(B.100)	57
Williams, P.J. Geotechnical Science Laboratory Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Investigation of stress and deformation produced by accumulating moisture in frozen soil - Phase II.	1982	7,611	(B.114)	57
Williams, P.J. Geotechnical Science Laboratory Dept. of Geography Carleton Univ.	SSC/ASC EMRC	Investigation of stresses and water movements during secondary frost heaving.	1983	19,878	(B.126)	57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Bajzak, D. and Langford, C.J. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	SSC/ASC EC	Ground truthing and analysis of remote sensed sea ice imagery.	1975	43,889	(B.25)	58
Banister Technical Services Edmonton, Alta.	SCC/ASC EC	Examination of a unique approach to through the ice depth-sounding equipment and methods.	1975	59,652	(B.26)	58
Banister Technical Services Edmonton, Alta.	SSC/ASC EC	Development and testing of production (through the ice) survey techniques.	1975	457,944	(B.34)	58
Banister Technical Services Edmonton, Alta.	SSC/ASC EC	Amendment to a contract for the development and testing of production through the ice survey techniques to include modification to the operational over the ice sounding system.	1976	2,500	(B.43)	58
Bhatnagar, V.P. Scarborough, Ont.	SSC/ASC DFE/MPE	Application of SEASAT-A altimeter data for ice roughness, seastate and over water winds.	1978	13,000	(B.69)	58
Boothroyd, A.R. Fac. of Engineering Carleton Univ.	SSC/ASC EC	Study of remote sensing of sea ice as part of the Beaufort Sea Project.	1975	4,500	(B.23)	58
Brian E. Felske and Associates Limited Toronto, Ont.	SSC/ASC EC	Provision of support services for long range transport of air pollution (LRTAP) non-ferrous econometric model study.	1980	18,000	(B.83)	58

REMOTE SENSING, COMPUTER SYSTEMS / TÉLÉDÉTECTION, SYSTÈMES INFORMATISÉS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
A-Cubed Incorporated Mississauga, Ont.	SSC/ASC EMRC	Multifrequency radar data collection, reduction and interpretation program to determine its capability to detect ground ice distribution.	1983	20,145	(B.121)	58
Air, Earth and Oceans Limited Oshawa, Ont.	SSC/ASC AC	Study of detectability of tracks in snow.	1981	88,832	(B.104)	58
ANTECH Antenna Technologies Limited Kirkland, Que.	SSC/ASC EMRC	Feasibility study to demonstrate switching and shaping of synthetic aperture radar antenna beam for Radarsat project.	1982	72,054	(B.113)	58
Arctic Sciences Limited Sidney, B.C.	SSC/ASC DFO/MPO	Development of computer software related to data inventory studies of the Beaufort Sea, Northwest Passage and Arctic Islands.	1982	9,421	(B.119)	58
Arsenault, L.D. Stittsville, Ont.	SSC/ASC EMRC	Interpretation of sea ice imagery.	1980	15,000	(B.88)	58
Atmospheric Dynamics Corporation Victoria, B.C.	SSC/ASC EC	Development of techniques and computer routines for special data assimilation in the Beaufort Sea area.	1975	16,169	(B.29)	58
Austin, G.L. Dept. of Physics McGill Univ.	EC	The delineation of cloud and snow areas from wintertime GOES satellite imagery.	1980-81	9,000		58
Austin, G.L. Dept. of Physics McGill Univ.	NSERCC/ CRSNGC	Design, development and test of an improved ice surveillance radar system for marine use.	1981-82 1982-83 1983-84	39,300 45,176 50,263		58
Austin, G.L. Radar Weather Observatory McGill Univ.	SSC/ASC EC	Study on the remote sensing of rainfall by radar and satellite for forest fire management.	1983	20,198	(B.126)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Canadian Applied Technology Buttonville, Ont.	SSC/ASC DFE/MPE	Development of a micro processor based data recorder utilizing 1/4" magnetic tape cartridge for arctic surveying, data acquisition and processing applications.	1977	134,000	(B.47)	58
Canadian Astronautics Limited Ottawa, Ont.	SSC/ASC EMRC	Update the cost model for SURSAT surveillance radar satellite demonstration program.	1980	12,671	(B.90)	58
Canadian Astronautics Limited Ottawa, Ont.	SSC/ASC DFO/MPO	Feasibility study on the remote sensing of the water depth in Arctic conditions.	1983	32,000	(B.127)	58
Caulfield Creative Arts Limited Sherwood Park, Alta.	SSC/ASC DFO/MPO	Development of a correlation sonar current meter and ice movement detector.	1982	977,184	(B.106)	58
Caulfield-Liron Consultants Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Development of a specialized bathymetric sounder for Arctic use.	1979	86,324	(B.72)	58
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC EMRC	Investigation of the use of microwave systems in detecting and monitoring oil slicks over ice and ice-infested waters - part of the Arctic Marine Oil Program.	1977	14,975	(B.57)	58
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC TC	Preliminary study for the evaluation of potential sea-ice thickness measuring techniques - Stage 1.	1977	7,500	(B.57)	58
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC DFE/MPE	Remote estimation of the properties of sea ice.	1979	215,610	(B.73)	58
Chudobiak, W.J. Fac. of Engineering Carleton Univ.	SSC/ASC EMRC	Studies into the use of radar remote sensors for ice thickness, oil spill and soil moisture applications.	1975	25,843	(B.30)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Chudobiak, W.J. and Makios, V. Fac. of Engineering Carleton Univ.	SSC/ASC CD/MC	Study on non-imaging radar techniques as applied to remote sensing of oil spills, ice thickness and soil moisture content.	1975	1,000	(B.31)	58
Computing Devices Company Ottawa, Ont.	SSC/ASC EC	Technical support services to provide complete hyperbolic positioning coverage over James Bay in support of hydrographic and oceanographic data collection.	1975	181,140	(B.24)	58"
Computing Devices Company Ottawa, Ont.	SSC/ASC EC	Engineering study and simulation to define an airborne data-handling system for ice reconnaissance and mapping.	1975	81,446	(B.32)	58
Computing Devices Company Ottawa, Ont.	SSC/ASC EC	Technical services to provide hyperbolic positioning coverage over James Bay in support of multidisciplinary scientific data collection.	1976	91,049	(B.35)	58"
CPRO Computing Enterprises Inc. Victoria, B.C.	SSC/ASC DFO/MPO	Development of computer programs for fluid problems in fjords and coastal waters.	1979 1980	22,500 24,970	(B.75) (B.87)	58 58
CPRO Computing Enterprises Inc. Victoria, B.C.	SSC/ASC DFO/MPO	Development of irregular grid model of the Northwest Passage.	1983	31,544	(B.125)	58
Csanady, S.L. Toronto, Ont.	SSC/ASC EC	Provision of mathematical programming services for the development of a planetary boundary layer prediction model to support the Beaufort Sea Environmental Prediction Support System.	1974	12,000	(B.21)	58
Dipix Systems Limited Ottawa, Ont.	SSC/ASC EMRC	Radarsat project - digital image analysis system (ARIES II).	1982	402,690	(B.109)	58
Edlund, S. Ottawa, Ont.	SSC/ASC EC	Amendment to contract for the study and development of a system of mapping Arctic vegetation and plant communities from aerial photographs to include additional test applications of the proposed mapping scheme.	1974	4,469	(B.11)	58
Emery, W.J., LeBlond, P.H., and Mysak, L.A. Inst. of Oceanography Univ. of British Columbia	NSERCC/ CRSNGC	Satellite remote sensing of ocean circulation inferred from ice movements and sea surface temperature patterns.	1981-82 1982-83 1983-84	55,000 96,967 66,543		58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
ESE Limited Rexdale, Ont.	SSC/ASC EMRC	Feasibility study for the use of TEAMED - Architecture Signal Processor (T-ASP) for radarsat Synthetic Aperture Radar data.	1982	13,073	(B.109)	58
F.G. Bercha and Associates Limited Calgary, Alta.	SSC/ASC EC	Comparison of SLAR imagery of the nearshore Alaska coastline with corresponding aerial photography for microwave signatures of sea ice.	1981	14,500	(B.95)	58
F.G. Bercha and Associates Limited Calgary, Alta.	SSC/ASC EC	Quantification and analysis of ice radar (SLAR) signature characteristics.	1981	38,000	(B.103)	58
F.G. Bercha and Associates Limited Calgary, Alta.	SSC/ASC DFO/MPO	Develop a system design for application for remote sensing technology to the estimation of arctic marine mammal populations and their distribution.	1983	30,000	(B.128)	58
Garrett, C.J.R. Dept. of Oceanography Dalhousie Univ.	EC	Numerical model of sea ice movement and modification.	1975-76	5,000		58
Garry T. Hunter and Associates Limited Islington, Ont.	SSC/ASC DFO/MPO	Development of methodology of applying airphoto interpretation to shallow-water bathymetric mapping in the Arctic.	1979	25, 135	(B.81)	58
Gendron, Lefebvre et associés Laval, Qué.	SSC/ASC EMRC	Exécution de levés photogrammétriques d'Involuted Hill près de Tuktoyaktuk (T.N.-O.).	1977	12,000	(B.49)	58
Georgia Tech Research Institute Atlanta, Georgia	SSC/ASC DFO/MPO	Modification and preparation of Georgia Tech Research Institute radar systems in support of an ice radar experiment.	1983	78,464	(B.121)	58
Geoscience Research Corporation Salisbury, Maryland, USA	SSC/ASC EMRC	Determination of lake elevations in northern Canada, utilizing Seasat radar altimetry - Phase I-II.	1982 1983	12,105 60,792	(B.114) (B.124)	58
Geostudio Consultants Limited Ottawa, Ont.	SSC/ASC DFE/MPE	Development of a methodology for assessing the regime of surficial waters in wet-land areas of northern Canada using LANDSAT images.	1977	36,400	(B.47)	58
Godard, R. Dép. de Mathématiques College militaire royal du Canada	NDD/MDN DRB/CRD	Prédiction numérique du mouvement de la glace à la surface de la mer en utilisant la méthode des éléments finis.	1980-81	1,000		58

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Gregory Geoscience Limited Ottawa, Ont.	SSC/ASC EMRC	Development of operational procedures for revising 1:250,000 topographic maps for selected geographic regions of Canada using LANDSAT data and field investigations - phase I-II.	1980 1981	55,633 247,783	(B.89) (B.96)	58
Grise Fiord Eskimo Co-operative Grise Fiord, N.W.T.	SSC/ASC MDD/MDN	Maintenance and servicing of experimental electronic equipment in Grise Fiord, Northwest Territories.	1981	5,760	(B.105)	58
Hart, J.F. Dept. of Computer Science Univ. of Western Ontario	SSC/ASC CD/MC	Evaluation of a computer communications network between computer files in southern Canada via the communications technology satellite (CTS) to a northern terminal point.	1974	6,500		58
Haykin, S.S. Dept. of Electrical and Computer Engineering McMaster Univ.	SSC/ASC CD/MC	Investigations into various topics associated with the digital data processing of radar signals.	1977	26,408	(B.52)	58
Haykin, S.S. Communications Research Laboratory McMaster Univ.	SSC/ASC DFO/MPO	Evaluation of radar techniques as they apply to the detection and classification of sea ice.	1980	22,290	(B.93)	58
Haykin, S.S. Dept. of Electrical and Computer Engineering McMaster Univ.	SSC/ASC DFO/MPO	Participation in a field experiment to evaluate various parameters of marine radar in Bluff Head, Northwest Territories.	1981	12,464	(B.97)	58
Haykin, S.S. Communications Research Laboratory McMaster Univ.	SSC/ASC DFO/MPO	Analysis of radar data collected during March/April field program on Borden Peninsula, Northwest Territories.	1981 1982 1983	33,465 33,388 21,031	(B.101) (B.112) (B.123)	58
Haykin, S.S. Dept. of Electrical and Computer Engineering McMaster Univ.	NSERCC/ CRSNGC	Radar back scutter from sea-ice and its classification.	1982-83	6,000		58
Haykin, S.S. Dept. of Electrical and Computer Engineering McMaster Univ.	NSERCC/ CRSNGC	Ice surveillance in the Arctic using surface-based radar.	1982-83 1983-84	48,150 37,274		58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Haykin, S.S. Dept. of Electrical and Computer Engineering McMaster Univ.	NSERCC/ CRSNGC	Experimental coherent instrumentation radar system for ice surveillance in the Arctic.	1982-83	538,559		58
Haykin, S.S. Communications Research Laboratory McMaster Univ.	SSC/ASC DFO/MPO	Digitize analogue radar signals recorded during an ice research experiment.	1983	12,298	(B.126)	58
Haykin, S.S. Communications Research Laboratory McMaster Univ.	SSC/ASC DFO/MPO	Provision of computer processing of radar data collected during the 1983 ice radar program.	1983	24,050	(B.127)	58
Hovey and Associates Limited Ottawa, Ont.	SSC/ASC DFE/MPE	Design and development of a through the ice echo sounding system for helicopters and related ice physics and acoustic propagation investigations.	1978 1979	94,511 33,579	(B.59) (B.71)	58
Howarth, P.J. Dept. of Geography McMaster Univ.	SSC/ASC EC	Study of the information content of earth resources technology satellite (LANDSAT-1) imagery for land classification and evaluation in the high Arctic.	1975	3,222	(B.29)	58
Huntec ('70) Limited Scarborough, Ont.	SSC/ASC DFO/MPO	Development of a non-linear acoustic transducer for through the ice echo sounding systems for hydrographic charting in the Arctic.	1980	247,703	(B.82)	58
Huntec ('70) Limited Scarborough, Ont.	SSC/ASC DFO/MPO	Evaluation of sonar equipment and techniques for applications in the Beaufort Sea.	1980	26,830	(B.82)	58
Huntec ('70) Limited Scarborough, Ont.	SSC/ASC NDD/MDN	Study of the normal incidence reflection, and scattering of a Deep Towed System (DTS) acoustic signals from the sea floor.	1980	49,000	(B.83)	58
Huntec ('70) Limited Scarborough, Ont.	SSC/ASC EMRC	Operation and maintenance of Deep Tow System on Arctic cruises.	1981	53,000	(B.101)	58
Huntec ('70) Limited Scarborough, Ont.	SSC/ASC NDD/MDN	Synthetic aperture radar motion sensing compensation - a preliminary design study.	1982	120,653	(B.116)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Huntec ('70) Limited Scarborough, Ont.	SSC/ASC NDD/MDN	Synthetic aperture radar motion sensing compensation study - part II.	1983	208,054	(B.124)	58
Iizuka, K. Dept. of Electrical Engineering Univ. of Toronto	SSC/ASC DFO/MPO	Evaluation of a step frequency radar for ice thickness determination.	1983	20,000	(B.122)	58
Innovative Ventures Limited Calgary, Alta.	SSC/ASC TC	Preliminary study for the evaluation of potential sea-ice thickness measuring techniques - Stage 1.	1977	7,677	(B.57)	58
Integrated Satellite Information Services Limited Prince Albert, Sask.	SSC/ASC EC	Transmission of satellite imagery for ice forecasting.	1975	8,990	(B.30)	58
Integrated Satellite Information Services Limited Prince Albert, Sask.	SSC/ASC DFE/MPE	Provision of LANDSAT and NOAA imagery and transmission to ice forecasting central.	1977	64,000	(B.52)	58
Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC EMRC	Development of Canadian applications for the use of airborne synthetic aperture radar (SAR) remote sensing by acquiring and interpreting SAR radar imagery - part of the Surveillance Satellite Program.	1978	2,234,000	(B.59)	58
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EMRC	Update of the airborne Synthetic Aperture Radar (SAR) and SURSAT projects for RADARSAT.	1981	24,666	(B.95)	58
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EMRC	Study of the relative response to X-band SAR and KU-band scatterometer of winter sea ice.	1981	5,154	(B.105)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EC	Review of the use of satellite data for the surveillance and monitoring of oil spills.	1982	23,295	(B.106)	58
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EMRC	Review the results of the European Space Agency/Joint Research Centre synthetic aperture radar 580 1981 campaign for the purposes of the Radarsat Project.	1982	45,866	(B.107)	58
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EC	Iceberg data base - SLAR analysis.	1982	33,273	(B.108)	58
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EMRC	Statistical study of synthetic aperture radar sea-ice data.	1982	23,732	(B.108)	58
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EC	State of the art survey of oil spill detection, tracking and remote sensing in cold climates.	1982	24,665	(B.117)	58
Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC EC	Evaluation of lightweight Side-looking Airborne Radar as a low cost alternative for remote sensing of oil spills.	1983	99,209	(B.127)	58
Intera Environmental Consultants Limited Ottawa, Ont.	SSC/ASC EMRC	Radarsat Synthetic Aperture Radar simulation software package.	1983	45,000	(B.124)	58
Interact Computing Services Limited Sidney, B.C.	SSC/ASC DFO/MPO	Development of computer program for analysis of oceanographic data from Prince of Wales Strait, Viscount Melville Sound and M'Clure Strait.	1982	40,244	(B.111)	58
International Submarine Engineering Limited Port Moody, B.C.	SSC/ASC DFO/MPO	Investigate the potential of tracking and commanding of a remote untethered under-ice vehicle.	1981	26,280	(B.105)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Keliher, T.E. Dept. of Physics Memorial Univ. of Newfoundland	SSC/ASC EC	Software modification and development related to numerical sea ice models for the Labrador Sea.	1983	12,351	(B.125)	58"
Kubina, S.J. Dept. of Electrical Engineering Concordia Univ.	NSERCC/ CRSNGC	Radiating systems on complex structures and EMC with special emphasis on computer techniques and graphics.	1980-81 1981-82 1982-83 1983-84	8,700 9,200 10,626 11,264		58
Lapp. D. Thornhill, Ont.	SSC/ASC EC	Interpretation of airborne and spaceborne remotely sensed imagery over sea ice.	1980	23,911	(B.88)	58
Leigh Instruments Limited Carleton Place, Ont.	SSC/ASC NRCC/CNRC	Development of an ice instrumentation system for helicopters.	1977	69,588	(B.50)	58
Leigh Instruments Limited Carleton Place, Ont.	SSC/ASC NRCC/CNRC	Analyses of winter 1976/77 winter flight tests and upgrading of the prototype ice detector systems.	1978	77,000	(B.58)	58
Leigh Instruments Limited Carleton Place, Ont.	SSC/ASC NRCC/CNRC	1977/78 winter test program and further development of an ice detector system.	1978	233,364	(B.60)	58
Les Consultants BMJ Incorporée Montréal, Que.	SSC/ASC EMRC	Compilation d'un fichier numérique du terrain pour le sud-ouest de la Colombie-Britannique, le sud du Yukon, le plateau continental adjacent et les régions adjacentes des États-Unis.	1979	54,922	(B.80)	58
Litton Systems Canada Limited Rexdale, Ont.	SSC/ASC DFE/MPE	Development of a laser profilometer compensation system for Department of Fisheries and the Environment ice patrol application.	1978	232,194	(B.61)	58
Litton Systems Canada Limited Rexdale, Ont.	SSC/ASC DFE/MPE	Program to make operational a data logging and annotation system (ADAAS) on the Environment Canada ice reconnaissance aircraft - Phase I.	1979	11,965	(B.73)	58
Lodwick, G.D. Dept. of Surveying Engineering Univ. of Calgary	NSERCC/ CRSNGC	Extension of a mathematical model for representing topographic terrain surfaces using digital landsat data.	1981-82	9,000		58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Lodwick, G.D. Dept. of Surveying Engineering Univ. of Calgary	NSERCC/ CRSNGC	Development of digital terrain models of the earth's surface using Landsat data.	1982-83 1983-84	13,000 13,780		58
L.P.A. Plastics (1976) Limited Mansonville, Que.	SSC/ASC TC	Development of a winter ice SPAR buoy.	1980	26,858	(B.91)	58
Maarouf, A. Edmonton, Alta.	SSC/ASC EC	Development of objective analysis computer programs, as part of a package of routines, for the analysis of observed meteorological elements in support of Beaufort Sea Project.	1974	30,000	(B.20)	58
MacDonald, Dettwiler and Associates Limited Richmond, B.C.	SSC/ASC EC	Development of computer-based algorithm to interface NIMBUS 7 SMMR data with the Atmospheric Environment Service ice modelling grid over the Beaufort Sea.	1981	33,334	(B.95)	58
MacDonald, Dettwiler and Associates Limited Richmond, B.C.	SSC/ASC EMRC	Preliminary synthetic aperture radar algorithm implementation for the RADARSAT program.	1983	48,614	(B.129)	58
MacDonald, Dettwiler and Associates Limited Vancouver, B.C.	SSC/ASC EC	Development, design and fabrication of a prototype weather satellite ground station to provide weather imagery coverage of Western Canada.	1976	248,433	(B.44)	58
Marinav Corporation Ottawa, Ont.	SSC/ASC DFE/MPE	Development of a system for determining bathymetry and hazard detection through the ice.	1977	321,500	(B.57)	58
Marinav Corporation Ottawa, Ont.	SSC/ASC DFO/MPO	Feasibility, requirement and economic study of vertical acoustic sweep systems for use in the Arctic.	1981	19,996	(B.104)	58
Marko, J.R. Victoria, B.C.	SSC/ASC EC	The analysis of quicklook and precision processed Earth Resources Technology Satellite (ERTS) data for long range sea ice mapping applications for the Beaufort Sea Project.	1984	12,500	(B.14)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Marko, J.R. Victoria, B.C.	SSC/ASC EC	Study of the Earth Resources Technology Satellite (ERTS) and the National Oceanographic and Atmospheric Administration (NOAA) satellite imagery for the Beaufort Sea ice cover.	1976	5,500	(B.35)	58
Marko, J.R. Victoria, B.C.	SSC/ASC EC	Satellite imagery analysis and ice forecast evaluation.	1976	21,975	(B.39)	58
McElhanney Surveying and Engineering Vancouver, B.C.	SSC/ASC EC	Establish benchmarks on lakes/channels in MacKenzie Delta.	1983	22,200	(B.122)	58
McQuest Marine Sciences Limited Burlington, Ont.	SSC/ASC DFO/MPO	Modification, testing and evaluation of the deep access reconnaissance television and McQuest rotary side scan sonar for hydrographic applications in the Canadian Arctic.	1983	99,500	(B.121)	58
Memorial Univ. of Newfoundland	SSC/ASC DFO/MPO	Preliminary study to examine potential of utilizing high frequency ground wave radar for the detection of sea ice and icebergs.	1982	47,317	(B.114)	58
Moniteq Limited Concord, Ont.	SSC/ASC EMRC	Design and fabrication of an airborne remote sensing system for gas pipeline leak detection.	1981	194,423	(B.98)	58
Montpetit, J.-P. Ottawa, Ont.	SSC/ASC EC	Élaboration de cartes de secteurs à 1/1,000,000e sur les possibilités du sol et les régions critiques du Canada méridional; étude de l'utilisation des photographies prises par le satellite de détection des ressources (ERTS) pour évaluer les ressources récréatives de la région du Grand lac des Esclaves (T.N.-O.).	1974	2,112	(B.11)	58
MPB Technologies Incorporated Ste-Anne-de-Bellevue, Que.	SSC/ASC TC	Development of a remote sea-ice thickness sensor - phase 1, stage 2 electronics design and antenna investigations.	1978	42,047	(B.61)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
MPB Technologies Incorporated Ste-Anne-de-Bellevue, Que.	SSC/ASC TC	Preliminary study for the evaluation of potential sea-ice thickness measuring techniques - Stage 1.	1977	7,548	(B.57)	58
MPB Technologies Incorporated Ste-Anne-de-Bellevue, Que.	SSC/ASC TC	Development of a remote sea ice thickness, phase I, stage 2, part 2 - construction and testing of an experimental prototype.	1978	147,573	(B.66)	58
MPB Technologies Incorporated Ste-Anne-de-Bellevue, Que.	SSC/ASC TC	Development of a remote sea-ice thickness sensor - phase I, stage 3 - field validation experiments.	1980	97,229	(B.82)	58
MPB Technologies Incorporated Ste-Anne-de-Bellevue, Que.	SSC/ASC TC	Theoretical evaluation of the various design options for automatic processing and interpretation of radar signals for sea-ice thickness measurements.	1980	22,179	(B.90)	58
MPB Technologies Incorporated Ste-Anne-de-Bellevue, Que.	SSC/ASC TC	Development of an antenna suitable for a remote sea-ice thickness sensor.	1981	237,455	(B.94)	58
MPB Technologies Incorporated Ste-Anne-de-Bellevue, Que.	SSC/ASC TC	Radio frequency circuit design for automatic data processing of radar signals of remote sea-ice thickness sensor.	1981	35,508	(B.98)	58
MPB Technologies Incorporated Ste-Anne-de-Bellevue, Que.	SSC/ASC TC	Electronic development for a remote sea-ice thickness sensor.	1981	299,357	(B.105)	58
MPB Technologies Incorporated Ste-Anne-de-Bellevue, Que.	SSC/ASC TC	Field trials of the TDC/MPBT advanced prototype sea-ice thickness sensor.	1983	163,600	(B.121)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Northern Environmental Research Winnipeg, Man.	SSC/ASC DFO/MPO	Application of sonar and detection of marine mammal vocalization to the estimation of Arctic marine mammal populations and their distribution.	1983	38,376	(B.128)	58
Odysseas Ocean Sciences Limited Sidney, B.C.	SSC/ASC EC	Development of computer programs for analysis of limnological data from Kootenay Lake and the headwater lakes and rivers of the Yukon River basin.	1983	5,365	(B.124)	58
Ontario Research Foundation Mississauga, Ont.	SSC/ASC EC	Evaluation of photographic images for ice characteristics using a Quantimet Image Analyser.	1974	2,400	(B.13)	58
Ontario Research Foundation Mississauga, Ont.	SSC/ASC EC	Analysis of aerial photo transparencies of the 1974 McKenzie ice jamming, using quantimat image analysis equipment.	1975	600	(B.28)	58
Optech Incorporated Downsview, Ont.	SSC/ASC DFE/MPE	Design, manufacture and testing of an airborne laser ice profilometer.	1977	248,797	(B.54)	58
Oritsland, N. Oslo, Norway	SSC/ASC INAC/AINC	Conduct a study on marine mammal computer modelling.	1983	3,890	(B.121)	58
Pegasus Earth Sensing Corporation North Vancouver, B.C.	SSC/ASC EC	Study of remote sensing of waterfowl wetland habitat on the Melville Peninsula, Northwest Territories.	1981	17,909	(B.101)	58
Ph. D. Associates Incorporated Rexdale, Ont.	SSC/ASC DFE/MPE	Literature survey on microwave remote sensing of sea ice.	1978 1978	5,000 1,615	(B.61) (B.69)	58
Ph. D. Associates Incorporated Rexdale, Ont.	SSC/ASC EC	Presentation and contouring of Nimbus 7 Scanning Multi-channel Microwave Radiometer (SMMR) data for brightness temperatures in the Beaufort Sea.	1981	16,892	(B.95)	58
Ph. D. Associates Incorporated Rexdale, Ont.	SSC/ASC EC	Continuing development of computer-based algorithm to interface nimbus 7 SAAR data with the AES ice modelling grid over the Beaufort Sea.	1981 1982	59,088 149,016	(B.101) (B.111)	58
Ph. D. Associates Incorporated Rexdale, Ont.	SSC/ASC EC	Diagnostic studies of satellite data over the Arctic.	1983	13,946	(B.123)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Philip A. Lapp Limited Toronto, Ont.	SSC/ASC EC	Evaluation and development of a scenario of remote sensing methods and procedures of oil spills in the Beaufort Sea.	1975	34,338	(B.23)	58
Philip A. Lapp Limited Toronto, Ont.	SSC/ASC EMRC	Study for resolving ambiguities in interpreting the thermal signature of ice and water in aerial thermographs of flat roofs.	1978	26,993	(B.61)	58
Philip A. Lapp Limited Toronto, Ont.	SSC/ASC EMRC	Ice and ocean user requirement definition study for RADARSAT program.	1981	147,438	(B.97)	58
Phillip A. Lapp Limited Toronto, Ont.	SSC/ASC EMRC	RADARSAT ice and ocean user requirement study.	1982	22,550	(B.114)	58
Polar Research Engineering Ottawa, Ont.	SSC/ASC EC	Analysis of remote sensing and sea ice data and to undertake a study on the ice melt ponds in the Arctic.	1981	49,089	(B.98)	58
Radio Engineering Products Montreal, Que.	SSC/ASC EC	Development and manufacture of radio beacon buoys for the Beaufort Sea surface current survey.	1984	29,388	(B.14)	58
Reinelt, E.R. Dept. of Geography Univ. of Alberta	SSC/ASC EC	Research studies on numerical enhancement of Automatic Picture Transmission (APT) scanning radiometer data for application to Arctic weather and ice prediction.	1974	27,364	(B.19)	58
Remotec Applications Incorporated St. John's, Nfld.	SSC/ASC NRCC/CNRC	Use of impulse radar techniques for depth profiling of Newfoundland peat deposits.	1981	87,059	(B.100)	58
Remotec Applications Incorporated St. John's, Nfld.	SSC/ASC EMRC	Evaluate the feasibility of measuring suspended sediment concentrations from processed nimbus-7 coastal zone color scanner images in the Canadian Beaufort Sea, using Bay of Fundy calibration values.	1983	6,000	(B.118)	58
Remotec Applications Incorporated St. John's, Nfld.	SSC/ASC EC	Preparation and presentation of a paper on the potential use of a satellite remote sensing techniques for Environmental Services studies in the north.	1983	3,935	(B.125)	58

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Roddy, D. Dept. of Electrical Engineering Lakehead Univ.	SSC/ASC EC	Radar resolution tests, controlled simulations, and electromagnetic propagation analysis for snow/ice/ freshwater stratigraphy.	1983	20,000	(B.127)	58
SAAB-Scania A.B. Linkoping, Sweden	SSC/ASC NRCC/CNRC	Work related to S-19 guidance units for Aries Project.	1983	119,372	(B.122)	58
SED Systems Limited Saskatoon, Sask.	SSC/ASC EC	Theoretical and instrumentation study in radio-frequency radiometry for the remote airborne detection of small forest fires.	1974	5,853	(B.11)	58
SED Systems Limited Saskatoon, Sask.	SCC/ASC TC	Experimental study of the application of UHF radiometry for the remote measurement of sea ice thickness.	1975	99,367	(B.25)	58
SED Systems Incorporated Saskatoon, Sask.	SSC/ASC NRCC/CNRC	Rocket payloads Aries A and B.	1983	795,829	(B.123)	58
Sharon Electronics Limited Ottawa, Ont.	SSC/ASC CD/MC	Collaboration with the Communications Research Centre in the preparation of an engineering report describing a radiometer built by Communications Research Centre for the remote sensing of sea ice thickness.	1974	4,340	(B.11)	58
Shearer, J.M. Ottawa, Ont.	SSC/ASC EMRC	Conduct an evaluation of side scan sonar technology and mosaicing techniques for Beaufort Sea Shelf/ Slope and Hibernia Seabed Morphology Research.	1982	25,000	(B.108)	58
Space Vector Corporation Northridge, California, USA	SSC/ASC NRCC/CNRC	Altitude control systems for the Aries Project.	1983	960	(B.123)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC NRCC/CNRC	Development of an engineering model of the power conditioner for the Solar Polar COSPIN Spacecraft Program.	1980	249,920	(B.82)	58

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SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	RADARSAT launch vehicle and spacecraft/ bus study.	1981	124,513	(B.96)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC NRCC/CNRC	Procurement program for the purchase of space qualified components for the solar polar cospin power conditioner.	1981	70,836	(B.97)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Investigate alternative calibration schemes for radarsat.	1982	38,359	(B.108)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Development of specifications for Radarsat data link and sensor interface.	1982	67,617	(B.116)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Development of specifications for Radarsat high power amplifier.	1982	297,933	(B.116)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Development of specifications for Radarsat ultra stable oscillator.	1982	250,843	(B.116)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Establish a project management team to manage Radarsat Research and Development projects.	1982	421,120	(B.116)	58
SPAR Aerospace Limited Weston, Ont.	SSC/ASC EMRC	Conceptual design study of an erectable SAR antenna for the RADARSAT Program.	1983	42,879	(B.120)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Network analyser to develop high powered amplifier for RADARSAT Research and Development Program.	1983	172,227	(B.120)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Simulation analyser to test system performance for RADARSAT Research and Development Program.	1983	202,043	(B.120)	58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Spectrum analyser to develop resolution requirements for RADARSAT Research and Development Program.	1983	120,635	(B.120)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Radarsat system interface definition - Project No. 19.	1983	190,422	(B.125)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EC	RADARSAT antenna modelling software - project 25 research and development phase II.	1983	492,676	(B.127)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EC	RADARSAT program management and system engineering research and development phase 2.	1983	456,158	(B.127)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	RADARSAT system modelling development - research and development, phase II.	1983	577,415	(B.129)	58
SPAR Aerospace Limited Ste-Anne-de-Bellevue, Que.	SSC/ASC EMRC	Study of solid-state transmitter and receiver configurations for RADARSAT research and development program.	1983	130,346	(B.129)	58
Steltner Development and Manufacturing Company Limited Pond Inlet, N.W.T.	SSC/ASC DFO/MPO	Ice radar experiment at Borden Radar Research Station, Northwest Territories.	1982	8,757	(B.112)	58
Stewart, J.M. Dept. of Botany Univ. of Manitoba	NRCC/CNRC	1) Accumulation dynamics of peatland vegetation. 2) Use of remote sensing in assessing peatland productivity.	1974-75 1975-76 1976-77	8,000 9,125 9,360		58
Strangeway, D.W. Dept. of Geology Univ. of Toronto	EMRC	Radio frequency interferometry as applied to ice and permafrost sounding.	1974-75 1975-76	14,000 14,000		58

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Systemhouse Limited Ottawa, Ont.	SSC/ASC EC	Development of a digital ice information system.	1982 1983	397,837 38,562	(B.108) (B.121)	58
Systemhouse Limited Ottawa, Ont.	SSC/ASC EC	Enhancements to the digital ice information system.	1983	26,300	(B.128)	58
Systems Engineering Associates Limited Baden, Ont.	SSC/ASC EMRC	Land benefits study of RADARSAT data.	1982	41,045	(B.106)	58
University of Kansas Lawrence, Kansas, USA	SSC/ASC EMRC	Modification and implementation of Remote Sensing Laboratory radar image simulation software for Radarsat.	1982	65,100	(B.112)	58
Univ. of Toronto	EC	Shortwave radiation investigations for glaciated basins.	1978-79	4,500		58
Unny, T.E. Dept. of Civil Engineering Univ. of Waterloo	DFO/MPO	A two-layer numerical model for part of the Northwest Passage in the Canadian Arctic.	1981-82	8,000		58
Walsh, J. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	DFO/MPO	An evaluation of HF radars for the detection of sea ice hazards and the measurement of ocean wave spectra.	1982-83 1983-84	8,000 5,000		58
Walsh, J. et al. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Research on high frequency radars for detection of sea ice.	1982-83	85,001		58
Watts, K.C. Dept. of Mechanical Engineering Technical Univ. of Nova Scotia	NSERCC/ CRSNGC	Computer simulation of two hinged floating platforms.	1979-80 1980-81 1981-82	7,500 8,235 9,035		58

RENEWABLE RESOURCES (GENERAL) / RESSOURCES RENOUVELABLES (GÉNÉRAL)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Dorcey, A.H.J. Westwater Research Centre Univ. of British Columbia	SSC/ASC EC	Establishment of priorities for water resources research in British Columbia and the Yukon Territory.	1981	5,000	(B.103)	59
McCandless, R.G. Whitehorse	CC/CAC	Renewable resource management.	1976-77	8,500		59
Routeledge, R.D. Dept. of Mathematics Univ. of Alberta	NSERCC/ CRSNGC	The optimal use of renewable resources - some stochastic models.	1978-79	2,700		59
Routeledge, R.D. Dept. of Mathematics Simon Fraser Univ.	NSERCC/ CRSNGC	Species, abundance distributions, and the optimal use of renewable resources under uncertainty.	1979-80 1980-81 1981-82	5,000 688 6,039		59
Routeledge, R.D. Dept. of Mathematics Simon Fraser Univ.	NSERCC CRSNGC	Improving statistical methodology in population biology and renewable resource management.	1982-83	12,000		59
Schwass, R.D. Dept. of Environmental Studies York Univ.	INAC/AINC	Grant to support project to investigate and study the ecology, distribution and availability of renewable resources in Northern Foxe Basin area.	1978-79	13,350		59
Thompson, A.R. Westwater Research Centre Univ. of British Columbia	SSC/ASC EC	Description and analysis of institutions providing for the management of water and related resources in the Yukon River Basin.	1983	33,899	(B.125)	59

SITE REHABILITATION, MITIGATION / RESTAURATION DES SITES, MITIGATION

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Baird, M.H.I. Dept. of Chemical Engineering McMaster Univ.	SSC/ASC AECB/CCEA	Feasibility study on the reduction of radium levels in uranium mill tailings.	1982	9,998	(B.112)	61
Bliss, L.C. Dept. of Botany Univ. of Alberta	SSC/ASC INAC/AINC	Study on the effects of disturbances on plant communities and a quantitative approach to the potential for revegetation in the High Arctic.	1974 1975	12,757 11,500	(B.15) (B.25)	61
Hardy Associates (1978) Limited Calgary, Alta.	SSC/ASC INAC/AINC	Evaluation of the natural habitat recovery of placer mining sites.	1980	93,451	(B.87)	61
Hutchinson, T.C. Dept. of Biology Univ. of Toronto	INAC/AINC	Vegetation of northern tailing and mining areas.	1976-77	34,670		61
Hutchinson, T.C. Dept. of Botany Univ. of Toronto	INAC/AINC	Tailings reclamation of acidic and metal contaminated arctic sites using pre-adapted vegetation.	1977-78 1978-79	64,615 72,385		61
MacLaren Plansearch Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Research and produce a guide to site development and rehabilitation of pits and quarries in Yukon and Northwest Territories.	1982	39,500	(B.107)	61
Western Ecological Services Limited Edmonton, Alta.	SSC/ASC INAC/AINC	Re-vegetation and reclamation literature review with special reference to areas disturbed by mining in the Canadian north.	1976	21,975	(B.37)	61

SNOW / NEIGE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Adams, W.P. Dept. of Geography Trent Univ.	EC	Evolution of snow stratigraphy in central Ontario with particular reference to soil and snow temperature regimes and form of falling snow.	1976-77	1,500		62
Canadian Himalayan Expedition Banff, Alta.	SSC/ASC DFE/MPE	Snow temperature measurements in high altitude snowpacks.	1977	1,000	(B.52)	62
Charbonneau, R. INRS Univ. du Québec à Québec	NRCC/CNRC	Étude comparative sur l'application de différentes méthodes de calcul de formation et de la fonte du manteau neigeux.	1975-76 1976-77	3,900 4,000		62
Chatt, A. Dept. of Chemistry Dalhousie Univ.	EC	Trace elements in snow.	1982-83 1983-84	6,000 6,000		62
Chris Stethem Consulting Limited Whistler, B.C.	SSC/ASC NRCC/CNRC	Micro-structural analysis of shear failure of snow.	1982	4,950	(B.108)	62
Chris Stethem and Associates Limited Whistler, B.C.	SSC/ASC NRCC/CNRC	Study of avalanche runout distances.	1982	6,250	(B.115)	62
De Krasinski, J.S. Dept. of Mechanical Engineering Univ. of Calgary	NSERCC/ CRSNGC	1) Study of a radial diffuser with boundary layer blowing in sub and supersonic velocity range; 2) Modelling of aerodynamic flow round buildings including snowdrfit; 3) Development of a wind tunnel model with temperature gradient; 4) Shock and acoustic wave propagation and attenuation in liquid forms.	1978-79 1979-80 1980-81	10,500 10,868 11,933		62

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
De Krasinski, J.S. Dept. of Mechanical Engineering Univ. of Calgary	NSERCC/ CRSNGC	1) Radial diffuser in supersonics; 2) Numerical modelling of snow drifting with intercrystal forces including aerodynamics of bluff bodies on the ground; 3) Final project of an atmospheric wind tunnel with temperature gradient; 4) Shock wave and acoustic attenuation in liquid foams.	1981-82 1982-83 1983-84	12,000 13,860 14,692		62
Gill, D. Dept. of Geography Univ. of Alberta	NRCC/CNRC	The ecological influence of snow in selected forest and tundra ecosystems.	1977-78	7,000		62
Glenne, B. Victoria, B.C.	SSC/ASC EC	Investigation of the formation of the mountain pack, snowpack metamorphism and snow melt processes.	1980	8,000	(B.90)	62
Golding, D.L. Fac. of Forestry Univ. of British Columbia	NSERCC/ CRSNGC	Snow accumulation and melt in forest openings related to peak streamflow and recession flow.	1979-80 1980-81 1981-82	10,000 10,980 12,078		62
Golding, D.L. Fac. of Forestry Univ. of British Columbia	NSERCC/ CRSNGC	Snow melt rates in clearcut and uncut forests in coastal British Columbia.	1982-83	5,000		62
Gray, D.M. Dept. of Hydrology Univ. of Saskatchewan	SSC/ASC EC	Study of snowcover accumulation in the MacKenzie Valley.	1974	24,832	(B.21)	62
Gray, D.M. Saskatoon, Sask.	SSC/ASC EC	Editing of a scientific textbook on snow.	1975	8,000	(B.31)	62
Gray, D.M. Saskatoon, Sask.	SSC/ASC EC	Final preparation of a scientific textbook on snow.	1980	10,300	(B.88)	62
Gray, D.M. Austonson, H.M. and Male, D.H. Dept. of Agriculture Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	The importance of snow and snow management practices to agricultural production.	1979-80 1980-81 1981-82	60,000 65,880 73,380		62
Isyumov, N. Fac. of Engineering Univ. of Western Ontario	NRCC/CNRC	Approach to snow load prediction through probabilistic snow load simulation methods based on wind tunnel derived model data and statistical models of the micro and macro climate.	1974-75	6,000		62

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Isyumov, N. Fac. of Engineering Univ. of Western Ontario	NRCC/CNRC NSERCC/ CSRNGC	1) Climatology of snowfall and related meteorological variables with Application to snow loads and other engineering problems 2) Wind tunnel model simulation of roof snow loads and snow drifting 3) Statistical prediction of design for snow loads using Monte Carlo simulation techniques.	1977-78 1978-79 1979-80	10,000 10,600 10,971		62
Isyumov. N. Fac. of Engineering Univ. of Western Ontario	NSERCC/ CRSNGC	Studies of snow and wind loading.	1981-82 1982-83 1983-84	12,000 13,860 14,692		62
LaChapelle, E.R. Kirkland, Washington, USA	SSC/ASC EC	Develop the theoretical and experimental foundations which describe and predict the metamorphism of the seasonal snowpack.	1981	10,000	(B.102)	62
LaChapelle, E.R. Kirkland, Washington, USA	SSC/ASC EC	Study of the metamorphism of snow and the liquid water content.	1982	12,000	(B.112)	62
LaChapelle, E.R. Kirkland, Washington, USA	SSC/ASC EC	Design, construction, testing and calibration of a system which measures free liquid water in snow samples based on the dielectric difference between ice and liquid water.	1983	12,000	(B.127)	62
Lauriol, B.M.E. Dep. de Geographie Univ. d'Ottawa	NSERCC/ CRSNGC	La couverture neigeuse de l'Ungava entre 1967 et 1980.	1981-82 1982-83	8,000 9,000		62*
Lauriol, B.M.E. Dep. de Géographie Univ. d'Ottawa	NSERCC/ CRSNGC	La couverture neigeuse de l'Ungava et des régions arctiques au moyen de la teledétection et des photo aériennes.	1983-84	9,540		62*
Llamas, J. CENTREAU, Univ. Laval	EC	Physical and hydrological behaviour of snow cover. Study of flow conditions within a snow cover.	1978-79	14,400		62
Llamas, J. CENTREAU, Univ. Laval	EC	Comportement physique et hydrologique d'un couvert de neige, Étude de la couche limite turbulente.	1980-81	15,000		62

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Llamas, J. Dep. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Équipement pour le laboratoire des neiges.	1981-82	55,000		62
Male, D.H. Dept. of Mechanical Engineering Univ. of Saskatchewan	NRCC/CNRC NSERCC/ CRSNGC	Thermodynamics of snow melt.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	10,500 11,980 12,285 13,500 14,310 14,811 18,000 19,800 22,869		62
Male, D.H. Dept. of Mechanical Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	Redistribution and melt of snow.	1983-84	27,030		62
Morrison, Hershfeld, Theakston and Rowan Limited Guelph, Ont.	SSC/ASC EC	Study of local wind flow/snow accumulation in the Norman Wells area.	1974	15,000	(B.20)	62
Price, A.G. Dept. of Geography Univ. of Toronto	NRCC/CNRC	Snowmelt hydrology in a forested environment; snowmelt runoff prediction using the energy balance approach.	1977-78	4,650		62
Price, A.G. Dept. of Geography Univ. of Toronto	NSERCC/ CRSNGC	Snowmelt and runoff processes in a forest.	1978-79 1979-80 1980-81 1981-82	7,000 7,000 7,500 8,500		62
S-Matrix Enterprises Limited Vancouver, B.C.	SSC/ASC NRCC/CNRC	Avalanche hazard forecasting.	1982	4,000	(B.112)	62
Sceicz, G. Dept. of Geography Univ. of Toronto	SSC/ASC EC	Study on the effect of meteorological factors on the rate of snowmelt.	1976	1,606	(B.36)	62

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Steltner Development St. Cahterines, Ont.	SSC/ASC DFO/MPO	Logistics support for Arctic Research Establishment and analysis of snow and ice samples, Pond Inlet, N.W.T.	1980	14,312	(B.87)	62
Steppuhn, H.W. Dept. of Agriculture Engineering Univ. of Saskatchewan	SSC/ASC AC	Design, development and evaluation of a swather attachment for snow management. .	1979 1980	35,845 9,080	(B.76) (B.90)	62
Steppuhn, H.W. Dept. of Agriculture Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	Aerodynamics and sublimation of wind-transported snow.	1980-81	8,500		62
Stethem, C. Whistler, B.C.	SSC/ASC NRCC/CNRC	Investigation of case histories of avalanche accidents in Canada during the period 1955 to 1970.	1977	9,000	(B.56)	62
Theakston, F.H. School of Engineering Univ. of Guelph	SSC/ASC EC	Snowcover measurement studies using meteorological recording apparatus.	1975	10,955	(B.24)	62
Thompson, J.C. Dept. of Civil Engineering Univ. of Waterloo	SSC/ASC NRCC/CNRC	Model study of certain aspects of the typical ice cover beam tests.	1982	4,966	(B.107)	62
Thurtell, G. Dept. of Land Resource Science Univ. of Guelph	SSC/ASC DFE/MPE	Study covering the development and testing of a snow cover energy balance model.	1977	12,190	(B.50)	62
Wigham, J.M. Dept. of Civil Engineering Univ. of Saskatchewan	NRCC/CNRC	Snowmelt runoff studies.	1975-76 1976-77 1977-78	3,900 4,000 4,336		62
Wigham, J.M. Dept. of Civil Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	Physical modelling of snowmelt runoff.	1981-82 1982-83 1983-84	8,500 9,818 10,407		62

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Wigham, J.M. Dept. of Civil Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	Variable speed motor control and associated control and measurement instruments.	1982-83	17,392	62
Wilson, R.G. Dept. of Geography McGill Univ.	NRCC/CNRC	Micrometeorological studies of snowmelt and evaporation in a sub-arctic environment.	1974-75 1975-76	6,200 5,850	62*
Woo, M.K. Dept. of Geography McMaster Univ.	EC	Spatial variability of Arctic snow cover: implications for precipitation climatology and computation of chemical loading.	1982-83	13,000	62

SOCIAL, SOCIOECONOMIC ISSUES - EVOLUTION / ASPECTS SOCIAUX ET SOCIO-ÉCONOMIQUES - ÉVOLUTION

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Aboud, F.E. McGill Univ.	SSHRCC/ CRSHC	Social development in native Indian people	1978-79 1979-80	7,605 5,164	63
Binder, E. Inuvik, N.W.T.	CC/CAC	Book on social aspects of reindeer herding in the Western Arctic.	1983-84	6,150	63
Bone, R.M. Committee on Northern Studies Univ. of Saskatchewan	INAC/AINC	To monitor demographic, economic and social change caused by Norman Wells oilfield development.	1982-83	30,000	63
Carley, M.J. Dept. of Community Planning Univ. of British Columbia	INAC/AINC	Cumulative socio economic monitoring; issues and indicators for Canada's Beaufort region.	1983-84	25,000	63
Fraser, C.R.P. Dept. of Commerce Univ. of British Columbia	LC/TC	The impact of collective bargaining on isolated mining communities.	1977-78	3,000	63
Mayes, R.G. Fac. of Graduate Studies and Research McGill Univ.	INAC/AINC	Socio economic impact study - Baffin National Park.	1974-75	5,000	63
Ponting, J.R. Dept. of Sociology Univ. of Calgary	INAC/AINC	A preliminary assessment of Canadian private foundations as potential sources of funding for projects by or about native people.	1978-79	6,750	63
Ponting, J.R. Dept. of Sociology Univ. of Calgary	INAC/AINC	Preliminary assessment of Canadian philanthropic foundations as potential sources of funding for projects by or about native people.	1979-80	6,750	63
Pritchard, J.C. Victoria, B.C.	SSC/ASC EC	Preparation of a report on investigations into the life styles of relatively remote Indian villages.	1976	375 (B.37)	63
Ray, A.J. Univ. of British Columbia	SSHRCC/ CRSHC	Native economies in transition, 1870-1945: an historical geographical view.	1983-84	8,448	63
Williamson, R.G. Dept. of Anthropology and Archaeology Univ. of Saskatchewan	INAC/AINC	Socio-economic studies in Bathurst Inlet in support of new park studies.	1976-77	6,250	63

SOVEREIGNTY, DEFENCE, INTERNATIONAL POLICIES / SOUVERAINETÉ, DÉFENSE, POLITIQUE INTERNATIONALE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Diubaldo, R.J. Dept. of History Concordia Univ.	NDD/MDN DRB/CRD	A study of Canadian-American defence policy (1945-75) with particular reference to northern defence policies and strategic resources.	1976-77	7,495		64
Orvik, N. Centre for International Relations Queen's Univ. at Kingston	SSC/ASC NDD/MDN	Canada's Northern Security - Eastern dimension.	1982	11,600	(B.109)	64
Smith, G. Fac. of Law Univ. of Ottawa	INAC/AINC	Research on Canadian sovereignty and maritime law.	1979-80 1980-81	10,000 30,000		64
Tracy, N. Dept. of Political Science Dalhousie Univ.	SSC/ASC NDD/MDN	Study of Canada's foreign policy objectives and Canadian security arrangements in the North.	1978	26,535	(B.60)	64
Tracy, N. Fredericton, N.B.	SSC/ASC NDD/MDN	Real or potential challenges to Canadian sovereignty in the Arctic - the Department of National Defence dimension.	1982	17,200	(B.117)	64

TERRESTRIAL ECOSYSTEMS / ÉCOSYSTÈMES TERRESTRES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Bouchard, A. et Gangloff, P. Centre de recherches écologiques de Montréal Univ. de Montréal	NSERCC/ CRSNGC	Mise au point d'une méthodologie d'analyse quantitative et intégrée des composantes physiques et biologiques d'un écosystème terrestre.	1982-83	35,200	65

TOURISM, SPORT HUNTING AND FISHING, LEISURE ACTIVITIES, CULTURAL SERVICES / TOURISME, CHASSE ET PÊCHE SPORTIVES, LOISIRS, SERVICES CULTURELS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Howard Paish and Associates Limited Burnaby, B.C.	SSC/ASC DFO/MPO	Policy-oriented assessment of the status of sport fisheries in the Yukon.	1981	20,000	(B.95)	66
Univ. of Alberta Dept. of Recreology	INAC/AINC	Yukon resident outdoor recreation survey - Kluane.	1976-77	21,000		66
Yurick, R.I. Dept. of Geology Univ. of Guelph	INAC/AINC	Recreational assessment - Wood Buffalo National Park.	1974-75	3,985		66

TRANSPORT, TRANSPORTATION SYSTEMS, ICE BREAKERS AND TECHNOLOGY / TRANSPORTS, SYSTÈMES DE TRANSPORT, BRISE-GLACES ET LEUR TECHNOLOGIE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Albery, Pullerits, Dickson & Associates Limited Fredericton, N.B.	SSC/ASC ITC/IC	Study of costs and benefits of building ice-breaking (LNG) liquified natural gas and oil carriers in Canada.	1981	85,856	(B.96)	67
Albery, Pullerits, Dickson & Associates Limited Don Mills, Ont.	SSC/ASC TC	"M.V. Arctic" vessel - ice transiting performance (continuous mode).	1983	109,366	(B.123)	67
Algoma Steel Corporation Limited (The) Sault Ste. Marie, Ont.	SSC/ASC EMRC	Research into the development of a Canadian sourced steel suitable for the hull construction of a large ice breaking tanker for service in the Canadian Arctic.	1983	72,505	(B.120)	67
Arctec Canada Limited Montreal, Que.	SSC/ASC INAC/AINC	Research study into the development of a semi-empirical model of ice loads on propellers.	1975	45,943	(B.29)	67
Arctec Canada Limited Montreal, Que.	SSC/ASC TC	Evaluation of the influence of bow shape on ice-breaking performance full scale trials.	1976	91,950	(B.36)	67
Arctec Canada Limited Montreal, Que.	SSC/ASC TC	Assessment of the suitability of the Y-pass ship propulsion system as related to control and propulsion in and out of ice covered waters.	1976	70,815	(B.42)	67
Arctec Canada Limited Montreal, Que.	SSC/ASC TC	Analysis of all existing world-wide, non-proprietary data from recent model ice-breaking tests on a variety of hull forms.	1977	16,844	(B.49)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Development program for improving Arctic marine transportation technology.	1977	71,032	(B.56)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Development of the acceleration spectrum for the service life of a polar class icebreaker.	1978	66,447	(B.61)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Modelling support for an air cushion icebreaking analysis.	1978	49,525	(B.62)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Analysis of the design of rudders, rudder stocks, steering gears and manoeuvring for Arctic class ships.	1978	33,357	(B.63)	67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Experimental investigation of hull-ice friction coefficients under variable conditions.	1978	30,460	(B.63)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Performance of model tests in the optimization of bow shape for an icebreaker.	1979	82,196	(B.76)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Study of the rules of various classification authorities, with respect to their requirements in the design of propellers and propeller shafts for ice class vessels.	1979	47,188	(B.77)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC NRCC/CNRC	Testing of a ship model on ice. Phase I-II.	1979 1980	135,828 136,413	(B.77) (B.85)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Experimental study to investigate the development of ice pressure during ice impact with ice breaking hulls.	1979	147,984	(B.78)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Acquisition of performance data on the Canadian Coast Guard air cushion icebreaking bow.	1980	142,000	(B.84)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Mathematical model prediction of ship motion response to ice impact.	1980	54,818	(B.84)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Prepare the design and installation drawings and specifications and provide the necessary supervision to drill the holes and fit associated structural stiffening for the future installation of pressure sensors aboard the Canadian Coast Guard Ship Louis S. St. Laurent at Halifax, N.S.	1980	19,359	(B.89)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Installation of instruments for ice-induced vibration measurements aboard the United States Coast Guard Carrier "Polar Sea" and the development of a model for the icebreaking excitation forces.	1981	208,000	(B.94)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Ice class propellers and shafts - model tests and scaling.	1981	102,411	(B.96)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Study of the magnitude and characteristics of the loads imposed on steering systems due to ship/ice interactions.	1982	238,819	(B.108)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Safety monitoring of machinery components during heavy ice-breaking - M.V. Arctic 1982 R&D Program.	1982	42,764	(B.113)	67

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Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Measurement and analysis of hull loading and structural response during ice-breaking.	1982	200,000	(B.114)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Development of ice breaking theory using segmented model techniques.	1983	212,872	(B.119)	67
Arctec Canada Limited Kanata, Ont.	SSC/ASC TC	Improving Arctic marine transportation technology update.	1983	9,980	(B.119)	67
Arctic Engineers and Constructors Houston, Texas, USA	SSC/ASC TC	Performance of experiments and model tests to assess the potential improvement in icebreaking performance of the Canadian Coast Guard ship "Alexander Henry" by the installation of a pneumatically induced pitching system (PIPS).	1974	61,461	(B.17)	67
Arctic Research Establishment Pond Inlet, N.W.T.	SSC/ASC DFO/MPO	Design, assembly and installation of a radar facility at Bluff Head, Borden Peninsula, Northwest Territories.	1981	63,524	(B.95)	67
Arctic Sciences Limited Saanichton, B.C.	SSC/ASC DFE/MPE	Deployment of Beaufort Sea drift buoys.	1978	4,000	(B.59)	67
Aviation Electric Limited Montreal, Que.	SSC/ASC NDD/MDN	Study of land navigation in the North in both vehicular and manpack applications.	1975	149,732	(B.27)	67
Barradas, R.G. Dept. of Chemistry Carleton Univ.	NSERCC/ CRSNGC	Low Temperature investigations of electrode processes in the lead acid battery system.	1982-83 1983-84	37,018 42,856		67
Bio Canada Calgary, Alta.	SSC/ASC TC	Evaluation and development of a ship mounted ice hazard detection system.	1980	1,100,000	(B.86)	67
Bombardier Limitee Valcourt, Que.	SSC/ASC NDD/MDN	Étude de faisabilite sur un véhicule de taille moyenne pour terrain peu praticable pour les années 1980.	1976	190,869	(B.45)	67
Bonn & Associates Consulting Services Incorporated Westport, Ont.	SSC/ASC EC	Special adviser on icebreaker tanker design and operations to the Beaufort Sea Environmental Assessment Panel Review.	1983	3,250	(B.118)	67

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Brooke Ocean Technology Halifax, N.S.	SSC/ASC DFO/MPO	Conduct a study to assess improvements in CSS Hudson's performance in ice due to installation of wartsila air bubbling system.	1983	3,950	(B.120)	67
Callahan, J. Fac. of Administrative Studies Univ. of Manitoba	INAC/AINC	Evaluation of transportation, Kluane N.P.	1975-76	8,430		67
Canadian Marine Drilling Limited Calgary, Alta.	SSC/ASC TC	Nozzle propeller ice force measurement.	1983	250,000	(B.122)	67
Canadian Marine Drilling Limited Calgary, Alta.	SSC/ASC TC	Use of ships "Kigoriak" and "Robert Lemeur" for full scale ice impact tests.	1983	520,000	(B.126)	67
Canarctic Shipping Company Limited Ottawa, Ont.	SSC/ASC EMRC	Inspection and survey of service induced fatigue and corrosion damage in the M.V. Arctic.	1983	44,362	(B.123)	67
Canarctic Shipping Company Limited Ottawa, Ont.	SSC/ASC TC	M.V. Arctic non-destructive and destructive testing program.	1982	78,671	(B.112)	67
Canarctic Shipping Company Limited Ottawa, Ont.	SSC/ASC TC	Arctic marine research - M.V. Arctic 1983/84.	1983	50,000	(B.124)	67
Canarctic Shipping Company Limited Ottawa, Ont.	SSC/ASC TC	Development of an ice navigation support system.	1983	213,097	(B.126)	67
Canarctic Shipping Company Limited Ottawa, Ont.	SSC/ASC TC	Hull girder measurement on the M.V. Arctic - 1983.	1983	30,087	(B.129)	67
Canarctic Shipping Company Limited Ottawa, Ont.	SSC/ASC TC	M.V. Arctic - Structural upgrading requirements study for ship/ice interaction tests.	1983	32,025	(B.129)	67

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Canfin Arctic Consultants Limited Pointe-Claire, Qué.	SSC/ASC TC	Concepts pour les brise-glaces à étrave à coussin fluide intégré.	1981	27,500	(B.101)	67
Case Existological Laboratories Limited Victoria, B.C.	SSC/ASC DFE/MPE	Investigation of cause of electrical failure of shore power connection from CSS Parizeau.	1977	2,296	(B.51)	67
Chrysler Canada Limited Windsor, Ont.	SSC/ASC EMRC	Evaluation of potential improvements in automobile fuel consumption at low temperatures.	1980	-	(B.89)	67
Collins, S.H. School of Engineering Univ. of Guelph	SSC/ASC NDD/MDN	Study of an improved terrain mobility mapping system.	1976	24,999	(B.42)	67
Cominco Limited Mississauga, Ont.	SSC/ASC NDD/MDN	Characterization of the positive plate of the lead acid battery at very low temperatures.	1974	49,600	(B.12)	67
Cominco Limited Mississauga, Ont.	SSC/ASC NDD/MDN	Study of the positive plate characteristics of a lead acid battery at very low temperature.	1975	100,000	(B.28)	67
Cominco Limited Mississauga, Ont.	SSC/ASC NDD/MDN	Amendment to a contract for the study of the positive plate characteristics of a lead acid battery at very low temperatures to include examination of the low temperature performance of cells with lead/calcium alloy grids.	1976	15,000	(B.36)	67
Davis Engineering Limited Ottawa, Ont.	SSC/ASC TC	Concepts for icebreakers with integral fluid cushion bow.	1981	15,041	(B.101)	67
Davis, Eryou and Associates Limited Ottawa, Ont.	SSC/ASC TC	Development of a method of protecting propellers in ice.	1979	197,679	(B.81)	67

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De Havilland Aircraft of Canada Limited (The) Downsview, Ont.	SSC/ASC TC	Comprehensive theoretical and laboratory analysis of air cushion icebreaking bow platforms and devices for attachment to, and pushed by, ships in ice covered waters.	1978	228,329	(B.59)	67
DeLaurier, J.D. Dept. of Aerospace Studies Univ. of Toronto	NSERCC/ CRSNGC	Flight dynamics of modern airships.	1981-82 1982-83 1983-84	11,000 12,705 13,467		67
Delta Marine Computer Services Halifax, N.S.	SSC/ASC DFO/MPO	Calculation of CSS Baffin's tank capacity.	1982	3,685	(B.111)	67
Delta Marine Computer Services Halifax, N.S.	SSC/ASC DFO/MPO	To perform calculation of C.S.S. Baffin tank capacities - continuation.	1982	1,600	(B.117)	67
Delta Marine Computer Services Halifax, N.S.	SSC/ASC DFO/MPO	Alterations to computer display of trim and stability data - C.S.S. Baffin.	1983	3,680	(B.121)	67
Delta Marine Computer Services Halifax, N.S.	SSC/ASC DFO/MPO	Study of the C.S.S. Baffin - subdivision and damage stability.	1983	8,350	(B.123)	67
Dome Petroleum Limited Calgary, Alta.	SSC/ASC TC	Participation in the 1981 scientific testing program using the ice breaker Canmar Kigoriak.	1982	250,000	(B.107)	67
Eastern Marine Services Limited Musquodoboit Harbour, N.S.	SSC/ASC DFO/MPO	Build a tank test model of the CSS Baffin.	1982	13,531	(B.109)	67
Evans, Yeatman and Endal (Associates) Limited Halifax, N.S.	SSC/ASC DFO/MPO	Study of CSS Baffin launch handling facilities.	1979	8,039	(B.78)	67
Eyretechnics Limited Ottawa, Ont.	SSC/ASC NRCC/CNRC	Load survey for Arctic Vessel and Marine Research Institute.	1979	20,400	(B.73)	67

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Eyretechnics Limited Dartmouth, N.S.	SSC/ASC DFO/MPO	Computer display of trim and stability data for CSS Baffin.	1982	7,938	(B.115)	67
Fenco Consultants Limited Calgary, Alta.	SSC/ASC TC	Determine the serviceability of the instrumentation system abroad M.V. "Arctic" and the collection of data on the operational performance of the vessel during the 1980 Arctic shipping season.	1980	172,112	(B.89)	67
Fleet Industries Limited Fort Erie, Ont.	SSC/ASC TC	Feasibility design study for a rotatable hull outfit for a polar icebreaker.	1975	24,827	(B.33)	67
Garrett Manufacturing Limited Ottawa, Ont.	SSC/ASC NDD/MDN	Assessment of thermal engines as a power source for propulsion of under-ice vehicles.	1976	48,831	(B.34)	67
Gen-Tec Incorporée Quebec, Qué.	SSC/ASC TC	Projet de développement d'un système à haute précision pour la mesure de la vitesse d'un brise-glace relativement à la surface glacée entourant le navire.	1982	309,036	(B.115)	67
German and Milne Incorporated Montreal, Que.	SSC/ASC TC	Design, supply, installation and acceptance trials of a comprehensive instrumentation system for the motor vessel Arctic.	1977	556,090	(B.53)	67
German and Milne Incorporated Montreal, Que.	SSC/ASC TC	Testing of prototype circuitry for the M.V. Arctic.	1977	21,956	(B.56)	67
German and Milne Incorporated Montreal, Que.	SSC/ASC TC	Preliminary propeller design for a nuclear polar icebreaker.	1980	29,730	(B.84)	67
German and Milne Incorporated Montreal, Que.	SSC/ASC TC	Investigation of large diameter design criteria for a Canadian Coast Guard nuclear icebreaker.	1980	24,064	(B.89)	67
German and Milne Incorporated Montreal, Que.	SSC/ASC TC	Concepts for icebreakers with integral fluid cushion bow.	1981	15,000	(B.101)	67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
German and Milne Incorporated Montreal, Que.	SSC/ASC TC	Adaptation and installation of NAWS strain gauging on the Canada Coast Guard ship Pierre Radisson.	1983	43,232	(B.120)	67
German and Milne Incorporated Montreal, Que.	SSC/ASC TC	Development of a small waterplane area twin hull ship for Arctic transportation.	1983	125,672	(B.125)	67
Glacio Marine Sainte-Foy, Qué.	SSC/ASC TC	À l'aide d'un modèle mathématique, recherches sur les mécanismes de bris des glaces des véhicules sur coussin d'air se déplaçant à la vitesse critique ou à une vitesse approchante.	1975	6,200	(B.27)	67
Gould Manufacturing of Canada Limited Fort Erie, Ont.	SSC/ASC ND/DN	Study of charge acceptance of lead-acid storage batteries at low temperatures.	1979	32,799	(B.78)	67
Government of Newfoundland (The) St. John's, Nfld.	SSC/ASC NRCC/CNRC	Provision of services for Arctic Vessel Marine Research Institute.	1981	6,000,000	(B.103)	67
Hermes Electronics Limited Dartmouth, N.S.	SSC/ASC DFO/MPO	Research and development on an air-deployable drifting buoy and an air-deployable ice buoy.	1980	99,281	(B.88)	67
Hickling-Smith Incorporated Ottawa, Ont.	SSC/ASC EC	Study comparing monthly fuel consumption of Whitehorse, Yukon Territory from June 1975 to May 1982.	1981	23,500	(B.99)	67
Hinchey, M.J. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Air cushion vehicle ice breaking.	1983-84	14,120		67
Hode Keyser, J. Dép. de Génie civil Ecole Polytechnique	NSERCC/ CRSNGC	Conception et entretien des routes du nord.	1983-84	4,770		67*
Hoverlift Systems Limited Calgary, Alta.	SSC/ASC TC	Design study for an air cushion platform icebreaking attachment for Canadian Coast Guard ships.	1977	153,650	(B.50)	67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Hoverlift Systems Limited Calgary, Alta.	SSC/ASC TC	Evaluation of full-scale notch-seal segments for an air cushion platform icebreaking attachment for Canadian Coast Guard ships.	1977	20,000	(B.55)	67
Hovey and Associates Limited Ottawa, Ont.	SSC/ASC NDD/MDN	Design, development, fabrication and testing of a prototype arctic start assist kit for use on a 1 1/4 ton truck cargo.	1975	26,404	(B.32)	67
Hovey and Associates Limited Ottawa, Ont.	SSC/ASC NDD/MDN	Feasibility study of a medium marginal terrain vehicle for the 1980s.	1977	186,310	(B.49)	67
Hsiung, C.C. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Estimate of icebreaking resistance of a vessel by model test in an ice tank	1981-82	2,000		67
Ice Engineering Limited St. John's, Nfld.	SSC/ASC TC	Analytical survey on ice collision avoidance system.	1978	41,273	(B.66)	67
Innovative Ventures Limited Calgary, Alta.	SSC/ASC NDD/MDN	Feasibility study for a system for sensing ice thickness and controlling ships penetration speed.	1978	9,754	(B.59)	67
Intera Environmental Consultants Limited Calgary, Alta.	SSC/ASC TC	Development of user's specifications of a shipborne multi-task ice data analysis system.	1983	489,100	(B.128)	67
Intercan Logistical Services Limitée Montréal, Qué.	SSC/ASC TC	Étude des ballasts et des conduites connexes des navires voguant en eaux couvertes de glace.	1982	79,395	(B.106)	67
International Submarine Engineering Limited Port Moody, B.C.	SSC/ASC DFO/MPO	Engineering and feasibility study of an underice, remotely controlled research submersible.	1981	17,250	(B.96)	67
International Submarine Engineering Limited Port Moody, B.C.	SSC/ASC DFO/MPO	Development of an Autonomous Remotely Controlled Submersible as an instrument platform for collecting hydrographic data under ice.	1982	831,025	(B.109)	67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Internav Limited Sydney, N.S.	SSC/ASC DFO/MPO	Beaufort Sea Loran-C/Accufix Program.	1980	22,959	(B.90)	67
Internav Limited Sydney, N.S.	SSC/ASC EC	Loran C. receiver trials and data analysis in Beaufort Sea area; April-May 1981.	1981	27,250	(B.98)	67
JMR Instruments Canada Limited Calgary, Alta.	SSC/ASC NDD/MDN	Primary Land Arctic Navigation System (Plans) phase I: proof of concept for azimuth determination using transit on a land vehicle.	1983	35,421	(B.123)	67
Jones, Kirwan and Associates Limited Hamilton, Ont.	SSC/ASC TC	Development, fabrication and evaluation of a flexible base skidder as a device for transporting heavy loads over weak surfaces.	1980	60,142	(B.85)	67
Labonville, R. Dép. de Génie mecanique Ecole Polytechnique	NSERCC/ CRSNGC	Comportement au démarrage sous des conditions nordiques des moteurs hydrauliques à pistons en présence des fluides synthétiques.	1979-80	6,000		67
Labonville, R. Dep. de Génie mecanique Ecole Polytechnique	NSERCC/ CRSNGC	Sensibilité au froid des moteurs hydrauliques à pistons opérant en région arctique.	1980-81 1981-82	6,500 6,500		67
Lavkulich, L.M. Dept. of Soil Sciences Univ. of British Columbia	SSC/ASC NDD/MDN	Terrain analysis for off-road vehicle mobility.	1977	29,467	(B.54)	67
Marinav Corporation Ottawa, Ont.	SSC/ASC DFO/MPO	Beaufort Sea Loran-C/accufix equipment tests.	1980	23,235	(B.91)	67
Marinav Corporation Ottawa, Ont.	SSC/ASC DFO/MPO	Operation of two Loran C transmitters at Duck Bay Bluff and Atkinson Point, Northwest Territories during the period 7 April to 15 May 1981.	1981	37,817	(B.98)	67
Martec Limited Halifax, N.S.	SSC/ASC TC	Development of a procedure for predicting propeller/ ice interaction forces.	1983	254,480	(B.129)	67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
McElhanney Survey and Engineering Limited Calgary, Alta.	SSC/ASC EMRC	Provision of precise navigation for G.S.C. field work aboard Canadian Coast Guard Ship Nahidik.	1983	25,195	(B.127)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	Measurement of the hull girder bending strains and vibrations in the hull of the MV Arctic and a subsequent voyage to Strathcona Sound, 1981.	1981	93,188	(B.102)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	M.V. Arctic hull girder stress and vibratory response during ship-ice interaction.	1982	300,000	(B.106)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	Fatigue tests of deck plate samples from the M.V. Arctic.	1982	9,950	(B.108)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	Mathematical model of the hull girder structure of the M.V. Arctic.	1982	104,586	(B.108)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	Measurement, recording and analysis of deck and bottom stresses on M.V. Arctic during a trans Atlantic crossing.	1982	62,075	(B.110)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	M.V. Arctic dynamic exciter tests.	1982	35,124	(B.110)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	Redesign study of the M.V. Arctic Bow - phase II.	1983	160,000	(B.119)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	"M.V. Arctic" vessel - propulsive performance.	1983	62,458	(B.124)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	Lifesaving equipment for Arctic ships.	1983	63,069	(B.129)	67
Melville Shipping Limited Calgary, Alta.	SSC/ASC TC	Personnel considerations in the safe operation of ships transitting the Canadian Arctic.	1983	115,303	(B.129)	67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
MMS Man-Machine Systems Consultants Incorporated Toronto, Ont.	SSC/ASC TC	Ergonomics and research applications in the development of an Arctic marine simulator.	1983	153,377	(B.122)	67
M. Shinbrot Mathematical Consultants Incorporated Victoria, B.C.	SSC/ASC TC	Study of the dynamic ice rupture by hovercrafts.	1981	61,003	(B.103)	67
Negrijn, J. Halifax, N.S.	SSC/ASC EC	Collaboration in the operation of the Western Arctic research motor vehicle "Salvelinus" for field research operations during 1974.	1974	6,000	(B.15)	67
Noranda Mines Limited Pointe-Claire, Que.	SSC/ASC NDD/MDN	Optimization of a non-aqueous battery system for low temperature applications.	1978	29,592	(B.68)	67
North Water Navigation Limited Montreal, Que.	SSC/ASC TC	Charter of motor vessel "Arctic" to facilitate completion of ice testing instrumentation.	1979	46,000	(B.73)	67
Nunasi Corporation Ottawa, Ont.	SSC/ASC TC	Snowmobile design study for Arctic operation.	1983	89,738	(B.122)	67
Offshore Survey and Positioning Services Limited North Vancouver, B.C.	SSC/ASC DFO/MPO	Development of a vehicle to carry messenger lines from hole to hole under Arctic ice.	1981	35,000	(B.97)	67
Owens, W.J. Ottawa, Ont.	SSC/ASC NDD/MDN	Study of the overland mobility of the forces in the Canadian environment.	1976	7,500	(B.42)	67
Parry, J.T. Dept. of Geography McGill Univ.	SSC/ASC NDD/MDN	Terrain evaluation related to Canadian forces vehicle mobility.	1976 1977	13,000 40,025	(B.42) (B.53)	67
Peirce Operational Dynamics Incorporated Ste-Marthe, Que.	SSC/ASC TC	Provision of technical investigation and engineering support services for phase II of M.V. "Arctic" detailed data analysis.	1982	90,000	(B.110)	67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Peirce Operational Dynamics Incorporated Ste-Marthe, Que.	SSC/ASC TC	Aviation for Technical Investigation and Engineering Support: Evaluation and dissemination of M.V. Arctic 1979-81 test results.	1983	33,000	(B.125)	67
Queen's Univ. at Kingston	SSC/ASC TC	Conceptual design of a railway track switch operable in snow and ice.	1982	75,000	(B.112)	67
Remotec Applications Incorporated St. John's, Nfld.	SSC/ASC DFE/MPE	Analysis of shore-based radar data for navigation on coastal and restricted ice-covered areas - Bylot Island Region, Northwest Territories.	1979	247,674	(B.73)	67
Space Hovercraft Limited Ottawa, Ont.	SSC/ASC TC	Concept definition of a utility class hovercraft with river icebreaking potential.	1979 1981	74,110 7,800	(B.74) (B.105)	67
Technical Research Centre of Finland Vuorimiehentie, Finland	SSC/ASC TC	M.V. Arctic bow strength studies and preparatory work for full scale tests.	1982	54,034	(B.113)	67
Technical Research Centre of Finland Vuorimiehentie, Finland	SSC/ASC TC	M.V. Arctic statistical measuring system - ice and wave loads, 1982.	1982 1983	169,822 28,388	(B.114) (B.121)	67 67
Teply S. Dept. of Civil Engineering Univ. of Alberta	NRCC/CNRC	Transportation systems in northern and western Canada.	1975-76 1976-77 1977-78	5,365 5,500 5,962		67
Undersea Research Limited Toronto, Ont.	SSC/ASC MST	Consultant and advisory services in the general areaof ocean policy development and more particularly in the development of a Canadian capability for operating on and below ice-covered waters.	1975	9,500	(B.23)	67
Unican Security Systems Limited Montreal, Que.	SSC/ASC MDD/MDN	Development and supply of fifty prototype zinc/air batteries with improved low temperature capability.	1974	78,798	(B.11)	67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Vaughan, H. Dept. of Mechanical Engineering Univ. of British Columbia	NSERCC/ CRSNGC	1) Strength of Arctic ships 2) Hydrodynamics of ships and platforms.	1983-84	15,370		67
W.R. David Engineering Limited Ottawa, Ontario	SSC/ASC TC	Protection of propellers in ice - phase 2.	1983	84,619	(B.121)	67
Wells, D.E. Dept. of Surveying Engineering Univ. of New Brunswick	NSERCC/ CRSNGC	Arctic navigation/Satellite positioning.	1983-84	31,800		67
Wells, D.E. Dept. of Surveying Engineering Univ. of New Brunswick	NSERCC/ CRSNGC	Arctic marine navigation aids.	1980-81 1981-82 1982-83	13,000 14,300 16,517		67
Wells, D.E. and Lachapelle, G. Dept. of Surveying Engineering Univ. of New Brunswick and Sheltech Canada	NSERCC/ CRSNGC	GPS high latitude test.	1982-83	15,000		67
Western Analysis Limited Vancouver, B.C.	SSC/ASC TC	Survey to determine the extent of seat belt use by drivers and passengers in the Yukon and Northwest Territories.	1977	11,562	(B.54)	67
Westinghouse Canada Limited Ottawa, Ont.	SSC/ASC NDD/MDN	Assessment of nuclear reactors as a power source for propulsion of under-ice vehicles.	1975	40,000	(B.32)	67
Whitman, Benn and Associates Limited Halifax, N.S.	SSC/ASC EMRC	Design and preparation of drawings and specifications for air gun boom - CSS Hudson.	1982	3,515	(B.109)	67
Wong, J.Y. Dept. of Mechanical Aerology Engineering Carleton Univ.	NDD/MDN DRB/CRD	Development of a method of predicting the off-road performance of tracked vehicles.	1981-82 1982-83 1983-84	225,586 110,000 82,042		67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Wong, J.Y. Fac. of Engineering Carleton Univ.	NRCC/CNRC	1) Investigations into the application of air cushion technology to cross-country transportation. 2) Investigation into the application of vibratory techniques to soil cutting.	1974-75	7,000		67
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	SSC/ASC NDD/MDN	Continuation of studies in the physics of terrain-vehicle wheel interaction.	1974	24,948	(B.14)	67
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	SSC/ASC NDD/MDN	Continuation of a research study of vehicle mobility and trafficability on snow-covered surfaces.	1974	11,932	(B.16)	67*
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	SSC/ASC EC	Study of the feasibility of a multiple propulsion system for an air-cushion hybrid vehicle.	1975	40,490	(B.25)	67*
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	SSC/ASC NDD/MDN	Study covering vehicle mobility and trafficability on snow covered surfaces.	1975	16,256	(B.30)	67
Yong, R.N. Soil Mechanics Research Laboratory McGill Univ.	SSC/ASC NDD/MDN	Continuation study covering a wheel and tire suspension system for predicting wheeled vehicle.	1976	34,987	(B.40)	67
Yong, R.N. Soil Mechanics Research Laboratory McGill Univ.	SSC/ASC NDD/MDN	Performance evaluation and prediction of vehicle tracks on soft terrain.	1976	49,993	(B.42)	67*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	NDD/MDN DRB/CRD	Terrain evaluation.	1976-77	2,222		67
Yong, R.N. Geotechnical Research Centre McGill Univ.	SSC/ASC NDD/MDN	Off-road performance evaluation and prediction of wheeled vehicles.	1977	71,188	(B.52)	67*
Yong, R.N. Geotechnical Research Centre McGill Univ.	SSC/ASC NDD/MDN	Performance evaluation and prediction of tracks and tracked vehicles on soft terrain.	1977	96,382	(B.52)	67
Yong, R.N. Geotechnical Research Centre McGill Univ.	SSC/ASC NDD/MDN	Evaluation and analytical prediction of tractive efficiency of wheeled vehicles on soft terrain.	1978	175,069	(B.69)	67
Yong, R.N. Geotechnical Research Centre McGill Univ.	SSC/ASC NDD/MDN	Investigation of the efficiency of tracked vehicles on marginal terrain, including the development of snow, muskeg and articulated vehicle computer models.	1978	240,772	(B.69)	67
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	NDD/MDN DRB/CRD	Off-road performance evaluation and prediction of wheeled vehicles.	1978-79	20,769		67
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	NDD/MDN DRB/CRD	Performance evaluation and prediction of tracks and tracked vehicles on soft terrain.	1978-79	21,479		67

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	NDD/MDN DRB/CRD	Efficiency of tracked vehicles on marginal terrain including the development of snow, models and articulated vehicle computer modules.	1978-79 1979-80 1981-82	59,200 204,144 123,221		67
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	NDD/MDN DRB/CRD	Evaluation and analytic prediction of tractive efficiency of wheeled vehicles on soft terrain.	1981-82	37,352		67
Yong, R.N. Geotechnical Research Centre McGill Univ.	SSC/ASC NDD/MDN	Evaluation of the performance of trailing wheels on soft mineral soils.	1982	42,884	(B.114)	67
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	NDD/MDN DRB/CRD	Evaluation & analytical prediction of tractive efficiency of vehicles on soft terrain.	1982-83	2,439		67
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	NDD/MDN DRB/CRD	Study the efficiency of tracked vehicles on marginal terrain including the development of snow, muskeg and articulated vehicle computer models.	1982-83	36,667		67

UNDERWATER NOISE, INDUSTRIAL NOISE / POLLUTION SOUS-MARINE PAR LE BRUIT, BRUITS INDUSTRIELS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Atlantic Information Systems Limited Ottawa, Ont.	SSC/ASC NDD/MDN	Instrumentation studies for ship noise reduction - Phase II.	1982	49,423	(B.110)	68
Bolt, Berenak and Newman Incorporated Cambridge, Mass., USA	SSC/ASC NDD/MDN	Research ship radiated noise, evaluation and control.	1982	76,366	(B.112)	68
Digitech Systems Limited Calgary, Alta.	SSC/ASC EMRC	Preparation of sonigrams for the offshore wells.	1980	9,558	(B.92)	68
Digitech Systems Limited Calgary, Alta.	SSC/ASC EMRC	Preparation of sonigrams for east coast offshore wells.	1983	14,873	(B.129)	68
Geraci, J.R. Dept. of Pathology Univ. of Guelph	SSC/ASC EC	Studies on controlled metabolism and the effect of underwater seismic blasts on ringed seals.	1975	15,197	(B.29)	68
LGL Limited Toronto, Ont.	SSC/ASC INAC/AINC	Study of the effects of ship traffic on Narwhals at the Admiralty Inlet ice edge.	1982	32,693	(B.113)	68
LGL Limited Toronto, Ont.	SSC/ASC INAC/AINC	Study of sound physics and the responses of marine mammals to Arctic marine transportation - phase I.	1983	118,232	(B.126)	68
MacDonald, Dettwiler and Associates Limited Vancouver, B.C.	SSC/ASC NDD/MDN	Development of a prototype non-recursive programmable digital filter for passive acoustics in northern waters.	1977	8,700	(B.48)	68
Nicolas, J.R. Dép. de Génie mecanique Univ. de Sherbrooke	NSERCC/ CRSNGC	Propagation du son sur la neige et identification des sources de bruit	1980-81 1981-82 1982-83	10,000 11,000 12,205		68

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Nicolas, J.R. Dép. de Génie mecanique Univ. de Sherbrooke	NSERCC/ CRSNGC	Analyseur F.F.T. à deux canaux.	1980-81	18,000		68
Terhune, J.M. Hampton, N.B.	SSC/ASC EC	Special advisor to the Beaufort Sea Environmental Assessment Panel review on underwater noise and its effects on mammals.	1983	9,000	(B.128)	68

VEGETATION, BOTANY, FLORA / VÉGÉTATION, BOTANIQUE, FLORE

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Bird, C.D. Dept. of Biology Univ. of Calgary	NRCC/CNRC	Floristics, ecology and systematics of lichens and bryophytes in western Canada.	1977-78 1978-79 1979-80	8,000 8,480 8,717	69
Bliss, L.C. Dept. of Botany Univ. of Alberta	NRCC/CNRC	Plant communities and physiological ecology of high arctic regions.	1974-75 1975-76	18,000 21,105	69
Bliss, L.C. Dept. of Botany Univ. of Alberta	NRCC/CNRC	Physiological ecology and plant communities of arctic and mountain regions.	1976-77 1977-78 1978-79	25,000 27,100 28,726	69
Brassard, G.R. Dept. of Biology Memorial Univ.	NRCC/CNRC NSERCC/ CRSNGC	Bryological studies in Newfoundland and Arctic Canada.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	5,000 5,705 8,000 8,672 9,192 12,000 13,176 14,494 20,750 23,670	69
Brooke, R.C. Dept. of Biological Sciences Simon Fraser Univ.	NRCC/CNRC	1) Comparative growth and productivity of woody species; experimental plant interactions. 2) Vegetation-environment relationships north Klondike Valley, Yukon.	1974-75	2,000	69
Carleton, T.J. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	The pattern of invasion by black spruce (Picea mariana) into jack pine forests.	1978-79 1979-80	5,000 7,500	69

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Dumbroff, E.B. Dept. of Biology Univ. of Waterloo	SSC/ASC EC	Study on drought tolerance and the physiological mechanisms of resistance in northern coniferous seedlings.	1983	19,850	(B.129)	69
Fulford, V. Toronto, Ont.	SSC/ASC AC	Preparation of illustrations of Yukon plants for an illustrated flora of the Yukon Territory.	1979	27,000	(B.76)	69
Hickman, M. Dept. of Botany Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	1) Standing crop, primary productivity, ecological and physiological studies of algae. 2) Algal species distribution and composition in the Yukon.	1974-75 1975-76 1976-77 1977-78 1978-79	6,000 6,845 8,000 8,672 9,192		69
Horton, D.G. Dept. of Botany Univ. of Alberta	NSERCC/ CRSNGC	Systematic and ecological studies of bryophytes in the Canadian Cordillera.	1980-81 1981-82 1982-83 1983-84	10,000 11,000 12,705 20,000		69
Keller, A. Vancouver, B.C.	SSC/ASC EC	Inventory and evaluation of wetland habitat in British Columbia and the Yukon.	1981	32,500	(B.101)	69
Kershaw, K.A. Dept. of Biology McMaster Univ.	NRCC/CNRC	The ecology of sub-arctic plant systems.	1974-75 1975-76 1976-77	16,000 18,250 18,720		69
Kershaw, K.A. Dept. of Biology McMaster Univ.	EC	The relation between the microclimate of subarctic plant systems and water conservation.	1975-76	55,000		69
Kershaw, K.A. Dept. of Biology McMaster Univ.	NRCC/CNRC	Controlled environment plant growth chamber, with an added temperature range and with light facilities.	1976-77	15,000		69
Kershaw, K.A. Dept. of Biology McMaster Univ.	NRCC/CNRC NSERCC/ CRSNGC	The ecology of sub-Arctic plant systems and the physiological ecology of their dominant lichen species.	1977-78 1978-79 1979-80	31,000 32,860 34,010		69

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Kershaw, K.A. Dept. of Biology McMaster Univ.	NSERCC/ CRSNGC	Data acquisition system and computer.	1979-80	39,824	69
Kershaw, K.A. Dept. of Biology McMaster Univ.	NSERCC/ CRSNGC	Physiological ecology of lichens with special reference to northern ecosystems.	1980-81 1981-82 1982-83 1983-84	75,000 82,500 101,288 111,300	69
Kershaw, K.A. Dept. of Biology McMaster Univ.	NSERCC/ CRSNGC	Experimental storage facility with diurnal temperature and light control.	1980-81	25,000	69
Kershaw, K.A. Dept. of Biology McMaster Univ.	NSERCC/ CRSNGC	Spectrophotometer.	1982-83	40,000	69
Kershaw, K.A. Dept. of Biology McMaster Univ.	NSERCC/ CRSNGC	High-speed refrigerated centrifuge.	1983-84	18,156	69
Lewis, M.C. Dept. of Biology York Univ.	NRCC/CNRC	Comparative ecophysiology of tundra plant growth forms.	1975-76 1976-77 1977-78	7,800 10,000 10,000	69
Lichens of the Alaskan North Slope	NSERCC/ CRSNGC	Scientific Publication Grants/Subventions à des publications scientifiques.	1978-79	3,000	69
Longton, R.E. Dept. of Botany Univ. of Manitoba	NRCC/CNRC	Plant growth and reproduction in relation to boreal and arctic environments.	1974-75 1975-76 1976-77	10,000 11,410 11,700	69
Longton, R.E. Dept. of Botany Univ. of Manitoba	NSERCC/ CRSNGC	Climatic adaptation and experimental systematics of bryophytes with particular references to boreal and polar climates..	1977-78 1978-79	10,000 7,000	69
Mayo, J.M. Dept. of Botany Univ. of Alberta	NRCC/CNRC	1) Separately controlled guard cell mechanisms. 2) The effect of ploidy on hardiness in viola adunca. 3) Water relations of evergreen-northern species.	1975-76 1976-77	5,850 6,000	69

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Moore, T.R. Dept. of Geography McGill Univ.	NSERCC/ CRSNGC	The biogeochemistry of northern peatlands.	1982-83 1983-84	23,000 22,260	69*
Morisset, P. Dep. de Biologie Univ. Laval	NSERCC/ CRSNGC	La diversité floristique dans un archipel arctique: une étude de biogéographie insulaire.	1983-84	4,240	69
Oechel, W.C. Dept. of Biology McGill Univ.	NRCC/CNRC	Factors controlling photosynthesis in arctic and subarctic bryophytes.	1974-75 1975-76 1976-77 1977-78	6,000 9,750 10,000 10,880	69*
Oechel, W.C. Dept. of Biology McGill Univ.	NRCC/CNRC	Mini computer with printer, 100 channel MV scanner and other attachments.	1974-75	12,000	69*
Oechel W.C. Dept. of Biology McGill Univ.	NRCC/CNRC	Plant growth chambers.	1977-78	18,000	69*
Oechel, W.C. Dept. of Biology McGill Univ.	NSERCC/ CRSNGC	Factors controlling the evolution and selection of the photosynthetic response patterns in boreal plants.	1978-79	13,000	69*
Packer, J.G. Dept. of Botany Univ. of Alberta	NRCC/CNRC	Taxonomic studies in the flora of Western Canada and the Arctic.	1974-75 1975-76 1976-77 1977-78	6,000 8,775 9,000 9,756	69
Packer, J.G. Dept. of Botany Univ. of Alberta	NSERCC/ CRSNGC	Taxonomic and phytogeographical studies in the flora of western Canada and the Arctic.	1978-79 1979-80 1980-81	9,000 9,315 10,228	69
Past and Present Vegetation of Northwest Canada Univ. of Toronto Press	NSERCC/ CRSNGC	Scientific Publication Grants/Subventions à des publications scientifiques.	1982-83	8,500	69

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Pucket, K. Dept. of Biology Laurentian Univ. of Sudbury	EC	Arctic lichen studies.	1974-75	3,300		69
Radforth, N.W. Dept. of Biology Univ. of New Brunswick	NRCC/CNRC	Classification of muskeg (peat and peatlands) as related to geotechnical properties and user requirements as based on.	1974-75 1975-76	12,650 14,430		69
Radforth, N.W. Dept. of Biology Univ. of New Brunswick	NRCC/CNRC	Use of palynology and modelling in unification of muskeg classification systems.	1976-77	7,000		69
Richard, P.J.H. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Paléobiogéographie post-Wisconsinienne du Québec.	1979-80 1980-81 1981-82 1982-83 1983-84	12,000 13,176 14,494 28,000 29,680		69*
Richard, P.J.H., Gangloff, P. et Gray, J.T. Dép. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Laboratoire de Palynologie de l'Université de Montréal.	1983-84	42,400		69*
Ritchie, J.C. Dept. of Botany Univ. of Toronto	CC/CAC	Vegetation history of the Beringian land-bridge and its role in the evolution of ecosystems.	1978-79	12,000		69
Ritchie, J.C. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Vegetation dynamics and paleo-ecology of Beringia.	1982-83 1983-84	56,000 55,120		69
Rowe, J.S. Dept. of Plant Ecology Univ. of Saskatchewan	SSC/ASC EC	Investigation of buried seed populations and the reproductive strategies of prevalent boreal species.	1974	4,000	(B.19)	69
SCADA Associates London, Ont.	SSC/ASC DFE/MPE	Collection and evaluation of vegetation baseline data on the right of way of the proposed Alaska Highway Gas Pipeline.	1978	51,708	(B.62)	69

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Schofield, W.B. Dept. of Botany Univ. of British Columbia	NRCC/CNRC	Studies in Bryophytes and Lichens.	1974-75 1975-76 1976-77	10,500 11,980 12,285	69
Schofield, W.B. Dept. of Botany Univ. of British Columbia	NRCC/CNRC NSERCC/ CRSNGC	Studies on bryophytes and lichens.	1977-78 1978-79 1979-80	13,000 13,780 14,262	69
Schofield, W.B. Dept. of Botany Univ. of British Columbia	NSERCC/ CRSNGC	Studies in bryophytes and lichens of Western North America.	1980-81 1981-82 1982-83	16,200 17,820 20,582	69
Schofield, W.B. Dept. of Botany Univ. of British Columbia	NSERCC/ CRSNGC	Systematic and geographic studies of bryophytes and lichens.	1983-84	19,440	69
Sheard, J.W. Dept. of Biology Univ. of Saskatchewan	NRCC/CNRC	1) Revision of the lichen genus rinodina in North America. 2) Studies on the ecology of Arctic lichens.	1974-75 1975-76	7,500 8,555	69
Sheard, J.W. Dept. of Biology Univ. of Saskatchewan	NRCC/CNRC	1) Revision of the lichen genus Rinodina in North America 2) Taxonomic, phytogeographic and ecological studies on the lichen flora of the boreal forest zone in Canada.	1976-77 1977-78 1978-79	10,000 10,840 11,490	69
Snyder, J.M. Dept. of Biological Sciences Notre Dame College	NRCC/CNRC	Ecology of arboreal lichens foraged by mountain caribou in the central Selkirk Mountains of British Columbia.	1975-76 1976-77 1977-78	4,875 5,000 5,420	69
Svoboda, J.M. Dept. of Botany Univ. of Toronto	NRCC/CNRC	Plant communities and plant production in the central Arctic and islands of the Canadian Arctic Archipelago.	1975-76 1976-77 1977-78	5,850 6,000 6,504	69
Svoboda, J.M. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Plant communities and production in the northeastern Canadian Arctic. Adaptive evolution in higher plants of the low arctic - high arctic transition.	1978-79	6,000	69

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Svoboda, J. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Adaptive evolution, age and history of distribution of Dryas integrifolia in the Canadian Arctic.	1979-80 1980-81 1981-82	7,000 7,686 8,455		69
Svoboda, J. and Freedman, B. Dept. of Botany Univ. of Toronto and Dalhousie Univ.	NSERCC/ CRSNGC	Short and long term effects of soil nutrient amelioration on structure, production and microclimate of large stands of arctic tundra communities.	1982-83 1983-84	13,000 10,600		69
Vaartnou & Sons Enterprises Limited Victoria, B.C.	SSC/ASC DFE/MPE	Mapping of vegetation types three kilometers on each side of the Alaska highway pipeline corridor over the full length of the route in the Yukon Territory.	1979	7,821	(B.70)	69
Vaartnou & Sons Enterprises Limited Victoria, B.C.	SSC/ASC EC	Collection of baseline data on vegetation communities along Dempster Highway from North Fork Pass, Yukon to Peel River, Northwest Territories.	1979	7,500	(B.79)	69
Van Huystee, R.B. Dept. of Plan Sciences Univ. of Western Ontario	NSERCC/ CRSNGC	Metabolism in plant cell development.	1978-79 1979-80 1980-81 1981-82 1982-83	17,900 18,527 20,343 26,565 28,159		69
Vitt, D.H. Dept. of Botany Univ. of Alberta	NRCC/CNRC	The ecology, floristics, and systematics of bryophytes in Arctic and Boreal Regions of Western Canada.	1974-75 1975-76	7,000 7,985		69
Vitt, D.H. Dept. of Botany Univ. of Alberta	NSERCC/ CRSNGC	The ecology, floristics & systematics of bryophytes in arctic & boreal western North America.	1976-77 1977-78 1978-79 1979-80 1980-81 1981-82	12,000 13,008 13,788 20,000 21,960 24,156		69
Vitt, D.H. Dept. of Botany Univ. of Alberta	SSC/ASC EC	Perform peatland ecology field investigations.	1982	10,400	(B.112)	69

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Vitt, D.H. Dept. of Botany Univ. of Alberta	NSERCC/ CRSNGC	The ecology, floristics and systematics of bryophytes, emphasizing arctic and boreal North America.	1982-83 1983-84	39,000 38,160		69
Weijer, J. Dept. of Genetics Univ. of Alberta	INAC/AINC	Study of native flowering plants, Rocky Mountain Parks.	1978-79	11,199		69
Weijer, J. Dept. of Genetics Univ. of Alberta	INAC/AINC	Native grass research study, Rocky Mountain Parks.	1978-79	21,000		69
Wein, R.W. Dept. of Biology Univ. of New Brunswick	EMRC	Study of heavy metal uptake by tundra plants.	1977-78	5,029		69
Wein, R.W. Dept. of Biology Univ. of New Brunswick	EMRC	Interactions between elements as they effect plant-soil heavy metal relationships in the Arctic.	1978-79	6,000		69
Woodland Resource Services Limited Edmonton, Alta.	SSC/ASC EC	Non-destructive sampling of non-inventoried areas and non-sampled covertypes in the prairie provinces and Northwest Territories.	1983	135,375	(B.126)	69

WASTE AND WASTE WATER (DISPOSAL AND TREATMENT) / DÉCHETS ET EAUX USÉES (ENTREPOSAGE ET TRAITEMENT)

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Associated Engineering Services Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Management study of Alaska Highway Gas Pipeline work camp waste.	1978	10,000	(B.61)	70
Brière, F. Dép. de Génie civil École Polytechnique	NRCC/CNRC NSERCC/ CRSNGC	Étude systématique de l'opération des champs de filtration par températures froides.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	4,500 5,135 5,165 7,500 7,950 8,228		70*
Brown, J.R. Dept. of Environmental Sciences and Engineering Univ. of Toronto	HWC/SBSC	The effect of climate on indicators on human fecal contamination in water.	1974-75 1975-76	24,600 14,522		70
Canadian-British Engineering Consultants (1971) Limited Don Mills, Ont.	SSC/ASC EC	Investigation of the solid waste management problems and development of an implementation program at seven Indian reserves in Northern Ontario.	1974	17,800	(B.17)	70
Cross, B.C. St. Catharines, Ont.	SCC/ASC EC	Laboratory, pilot plant and field studies on wastewater treatment at Burlington, Ontario, and Yellowknife, Northwest Territories.	1976	16,100	(B.38)	70
Dagg, J.B. Whitehorse, Y.T.	SSC/ASC DFE/MPE	Study on wastewater treatment pilot plants in Whitehorse, Yukon Territory.	1976 1977	13,515 10,009	(B.44) (B.50)	70
Davis, E. Dept. of Civil Engineering Univ. of Saskatchewan	NSERCC/ CRSNGC	Low temperature water treatment evaluation.	1983-84	15,370		70

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Ellis, Beazely Engineering Limited Coquitlam, B.C.	SSC/ASC EC	Provision of advisory services on municipal wastewater conveyance and treatment systems in the Arctic environment.	1974	10,000	(B.16)	70
Heinke, G.W. Dept. of Civil Engineering Univ. of Toronto	NRCC/CNRC	1) Water supply and waste disposal problems in cold climate regions. 2) Physical-chemical waste treatment.	1974-75 1975-76 1976-77 1977-78	9,500 10,835 11,115 13,500		70
Heinke, G.W. Dept. of Civil Engineering Univ. of Toronto	NSERCC/ CRSNGC	Velocity meter for three dimensional measurements.	1980-81	8,000		70
Heinke, G.W. Dept. of Civil Engineering Univ. of Toronto	NSERCC/ CRSNGC	1) Water supply and waste disposal problems in cold climate regions. 2) Physical-chemical waste and water treatment. 3) Environmental engineering in cold regions.	1978-79 1979-80 1980-81 1981-82	14,310 14,811 19,500 21,450		70
Heinke, G.W. Dept. of Civil Engineering Univ. of Toronto	NSERCC/ CRSNGC	1) Environmental engineering in cold regions 2) Physical-chemical water and waste treatment.	1982-83 1983-84	24,775 39,750		70
Hodgson, G.W. Fac. of Environmental Design Univ. of Calgary	NDD/MDN DRB/CRD	Waste management for cold climates.	1974-75 1975-76	5,000 4,375		70
International Environmental Consultants Limited Islington, Ont.	SSC/ASC CMHC/SCHL	Irradation as an alternate for disinfection of domestic waste in the Canadian Arctic.	1977	21,668	(B.52)	70
Labonté, R. Dép. de Génie civil École Polytechnique	EC	Conceptualization of and experimentation with new methods of treating waste water and solid wastes in northern climates.	1974-75	12,000		70*

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Labonté, R. Dép. de Génie civil École Polytechnique	NRCC/CNRC	Traitements chimiques pour l'enlèvement sous des climats froids des phosphates et des nitrates des eaux usées.	1974-75	5,000		70*
Les Consultants Pluritec Trois-Rivières, Qué.	SSC/ASC EC	Étude et traitement des eaux grises en milieu arctique.	1979	106,138	(B.76)	70
McKyes, E. Dept. of Agricultural Engineering McGill Univ.	SSC/ASC DFE/MPE	Examination of subsurface injection of municipal sludge in the Canadian climate.	1978	71,836	(B.64)	70
M.M. Dillon Limited Edmonton, Alta.	SSC/ASC EC	Investigation of the feasibility of designating ocean dumpsites in the Canadian Beaufort Sea.	1982	14,000	(B.117)	70
M.M. Dillon Limited Edmonton, Alta.	SSC/ASC EC	Literature review and development of terms of reference for a solid waste management study in the Beaufort Sea.	1983	4,300	(B.121)	70
M.M. Dillon Limited Edmonton, Alta.	SSC/ASC EC	Provide copies of a report entitled, "Investigation of the Feasibility of Designating Ocean Dumpsites in the Canadian Beaufort Sea".	1983	300	(B.122)	70
Narasiah, S. Dép. de Génie civil Univ. de Sherbrooke	NRCC/CNRC NSERCC/ CRSNGC	Rendement bactérien dans un étang aéré en climat froid.	1977-78 1978-79 1979-80	6,500 6,890 7,131		70
Narasiah, S. Dep. de Génie civil Univ. de Sherbrooke	NSERCC/ CRSNGC	Performance d'un étang aéré en climat froid.	1980-81 1981-82 1982-83 1983-84	9,500 10,450 12,070 13,280		70
Narasiah, S. Dep. de Génie civil Univ. de Sherbrooke	NSERCC/ CRSNGC	Équipement de Fermentation.	1980-81	6,000		70
Narasiah, S. Dep. de Génie civil Univ. de Sherbrooke	NSERCC/ CRSNGC	Auto sampler ASM-1.	1981-82	18,000		70

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Pluritec Consultants Shawinigan, Que.	SSC/ASC EC	Study of waste treatment methods in an Arctic environment.	1975	18,135	(B.26)	70
Reger, M. Whitehorse, Yukon	SSC/ASC DFO/MPO	Compilation of listing of known and probable abandoned waste disposal sites throughout the Yukon Territory.	1983	12,000	(B.125)	70
Reid, Crowther and Partners Limited Calgary, Alta.	SSC/ASC EC	Feasibility study for hazardous waste management in northern and western Canada.	1979	210,517	(B.80)	70
Robillard, L. Dep. de Génie civil École Polytechnique	NSERCC/ CRSNGC	Convection libre et forcée dans une eau ambiante à basse température.	1978-79 1979-80 1980-81	8,000 8,280 9,091		70
Robillard, L. Dép. de Génie civil École Polytechnique	NSERCC/ CRSNGC	Appareil automatisé de prélèvement de données.	1979-80	27,000		70
Robillard, L., Vasseur, P. et Nguyen, T.H. Dép. de Génie civil École Polytechnique	NSERCC/ CRSNGC	Rejets thermiques et autres mouvements de convection en conditions hivernales.	1980-81 1981-82	27,000 20,000		70
Siemieniuk, W. Winnipeg, Man.	SSC/ASC DFE/MPE	Inventory of hazardous and other wastes in the Yukon.	1978	3,500	(B.63)	70
Smith, D.W. Dept. of Civil Engineering Univ. of Alberta	SSC/ASC EC	Critical evaluation of existing information concerning the use of lagoons in cold regions.	1983	19,174	(B.118)	70
SNC Tottrup Services Limited Edmonton, Alta.	SSC/ASC EC	Investigation of effects of land sewage disposal on subarctic flora and fauna.	1975	6,600	(B.29)	70
Stanley Associates Engineering Limited Edmonton, Alta.	SSC/ASC DFE/MPE	Final assessment and pre-design study of the sewage disposal system at the Watson Lake Airport, Yukon Territory.	1978	11,190	(B.69)	70

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Underwood McLellan Limited Edmonton, Alta.	SSC/ASC EC	Identification and verification of active and inactive land disposal sites in the Northwest Territories.	1982	35,560	(B.108)	70
Underwood McLellan Limited Edmonton, Alta.	SSC/ASC EC	Provide copies of a report entitled, "Identification and Verification of Active and Inactive Landfill Sites in the N.W.T.".	1983	1,185	(B.122)	70
Viraraghaven, T. Fac. of Engineering Univ. of Regina	NSERCC/ CRSNGC	Peat filtration of septic tank effluent and municipal secondary effluent.	1983-84	13,780		70
W.L. Wardrop and Associates Limited Winnipeg, Man.	SSC/ASC DFE/MPE	Inventory of hazardous waste in the Northwest region.	1977	42,495	(B.56)	70

WILD ANIMAL HUSBANDRY / ÉLEVAGE D'ANIMAUX SAUVAGES

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO

OTHER SUBJECTS / AUTRES SUJETS

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO

COLD ACCLIMATION / ADAPTATION AU FROID

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Aleksiuk, M. Dept. of Zoology Univ. of Manitoba	NRCC/CNRC	1) Seasonal energetics in cold climate mammals 2) Environmental physiology and ecology of cold climate reptiles.	1974-75 1975-76 1976-77	10,000 11,410 11,700		73
Aleksiuk, M. Dept. of Zoology Univ. of Manitoba	NRCC/CNRC	Lark trailer, and heater.	1974-75	5,040		73
Aleksiuk, M. Dept. of Zoology Univ. of Manitoba	NRCC/CNRC	Integration of behaviour, physiology and ecology in the thermoregulation and energetics of vertebrates. A field approach.	1977-78	15,000		73
Baigent, M.J. Dept. of Nutrition and Food Science Univ. of Toronto	NDD/MDN DRB/CRD	The influence of diet composition and feeding pattern on cold tolerance in rats.	1975-76	7,950		73
Baigent, M.J. Dept. of Nutrition and Food Science Univ. of Toronto	SSC/ASC NDD/MDN	Study of body fat loss in animals during exercise in the cold.	1977	21,365	(B.57)	73
Baigent, M.J. Dept. of Nutrition and Food Science Univ. of Toronto	NDD/MDN DRB/CRD	Body fat loss during exercise in cold (animals).	1977-78 1978-79	7,385 14,107		73
Bukowiecki, L.J. Dep. de Physiologie Univ. Laval	MRCC/CRMC	Regulation of energy metabolism during cold-acclimation.	1977-78 1978-79	24,000 17,510		73
Bukowiecki, L.J. Dep. de Physiologie Univ. Laval	MRCC/CRMC	Regulation of energy metabolism during cold-acclimation: Stimulus-calorigenesis coupling in brown adipocytes.	1979-80	23,500		73
Chin, A.K. Dept. of Physical Education York Univ.	NDD/MDN DRB/CRD	Physical fitness and adaptation to cold and altitude stresses.	1974-75 1975-76	8,500 7,500		73

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Christopherson, R.J. and Thompson, J.R. Dept. of Animal Science Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Physiology of cold stress and cold acclimation.	1977-78 1978-79 1979-80 1980-81	7,000 10,310 10,671 11,717		73
Cooper, K.E. Dept. of Medical Physiology Univ. of Calgary	NDD/MDN DRB/CRD	Respiratory and cardiovascular responses to cold water immersion.	1975-76	8,720		73
Côté, C. Dép. de Physiologie Univ. Laval	MDAC/ACDM	Alterations in the nature of/and number of receptors of the skeletal muscle after adaptation to cold training and isoproterenol injections.	1978-79	6,850		73
Côté, C. Dép. de Physiologie Univ. Laval	MDAC/ACDM	Modifications des propriétés métaboliques et contractiles du muscle squelettique après un entrainement en endurance, des injections d'isoprotérenel et après avoir été adapté au froid.	1979-80 1980-81	6,360 1,825		73
Courtin, G.M. Dept. of Biology Laurentian Univ. of Sudbury	NRCC/CNRC	Adaptation of the sedge, Carex stans. to growth in the cold, shallow active layer of peat soils on Devon Island N.W.T.	1974-75 1975-76 1976-77	3,000 2,440 3,000		73
Cummins, W.R. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Analysis of responses of plants and plant cells to drought and low temperature stress.	1978-79 1979-80 1980-81	7,000 7,245 7,955		73
Cummins, W.R. Dept. of Botany Univ. of Toronto	NSERCC/ CRSNGC	Thermal acclimation in arctic plants.	1981-82	7,000		73
Dale, H. Dept. of Botany and Genetics Univ. of Guelph	SSC/ASC EC	Determine the effect of cold temperature and interspecific competition on the survival and potential nuisance growth in Canada of exotic aquatic plants.	1979	14,656	(B.79)	73
Dale, H. Dept. of Botany and Genetics Univ. of Guelph	EC	Determine the effect of cold temperature and interspecific competition on the survival and potential nuisance growth in Canada of exotic aquatic plants.	1979-80 1980-81	9,356 6,700		73

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Duval, A. Dép. de Biologie Univ. Laval	NSERCC/ CRSNGC	1) Le système circulatoire des limaces 2) La résistance des limaces au froid.	1982-83 1983-84	11,000 11,660		73
Goode, R.C. Dept. of Physiology Univ. of Toronto	NDD/MDN DRB/CRD	Physiological Responses to sudden immersion in cold water.	1975-76	6,100		73
Goode, R.C. Dept. of Physiology Univ. of Toronto	SSC/ASC NDD/MDN	Study of cold adaptation induced by cold water immersions - phase I.	1983	62,430	(B.121)	73
Gusta, L.V. Dept. of Crop Science and Plant Ecology Univ. of Saskatchewan	NRCC/CNRC	Role of membranes in cold injury and hardiness of cell suspensions.	1975-76	5,850		73
Gusta, L.V. Dept. of Crop Science and Plant Ecology Univ. of Saskatchewan	NRCC/CNRC	The physical status of water during cold and drought acclimation in cereal plants.	1976-77 1977-78 1978-79	8,000 8,672 9,192		73
Gusta, L.V. Crop Development Center Univ. of Saskatchewan	AC	Freeze tests and winter survival.	1981-82	7,500		73
Gusta, L.V. Dept. of Crop Science and Plant Ecology Univ. of Saskatchewan	AC	Abscisic acid and cold hardening.	1983-84	7,985		73
Haard, N.F. Dept. of Biochemistry Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Digestive enzymes from low temperature adapted poikilotherms.	1980-81 1981-82 1982-83	23,500 25,850 29,857		73
Haard, N.F. Dept. of Biochemistry Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Amino acid analyzer.	1980-81	17,000		73
Hacker, R.R. Dept. of Animal and Poultry Sciences Univ. of Guelph	NRCC/CNRC	Effect of exposure to cold on growth, reproduction and some biochemical parameters in blood plasma and urine of the hog.	1974-75 1975-76 1976-77	6,500 7,415 7,605		73

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Hacker, R.R. Dept. of Animal and Poultry Sciences Univ. of Guelph	NRCC/CNRC	1. Automatic gamma counter.	1974-75	18,275	73
Harris-Lowe, R.F.B. Dept. of Physics Royal Military College of Canada	NDD/MDN DRB/CRD	Thermal and hydrodynamic low temperature effects.	1974-75	5,000	73
Hayward, J.S. Dept. of Biology Univ. of Victoria	NSERCC/ CRSNGC	Physiology and survival techniques of man in cold water.	1976-77 1977-78 1978-79	16,000 17,344 18,385	73
Hayward, J.S. Dept. of Biology Univ. of Victoria	NSERCC/ CRSNGC	Hypothermia in man: physiology, prevention, treatment.	1979-80 1980-81 1981-82	22,795 25,029 27,532	73
Hayward, J.S. Dept. of Biology Univ. of Victoria	NSERCC/ CRSNGC	Accidental hypothermia in man: Physiology, prevention, treatment.	1982-83	27,532	73
Heick, H.M.C. Dept. of Biochemistry Univ. of Ottawa	MRCC/CRMC	Relationship between hormone binding and tissue metabolism.	1975-76	13,335	73
Heick, H.M.C. Dept. of Biochemistry Univ. of Ottawa	MRCC/CRMC	Altered response to hormones of the tissues of cold-resistant animals.	1976-77	2,500	73
Hew, C.L. Dept. of Biochemistry Univ. of Ottawa	MRCC/CRMC	Proinsulin biosynthesis by the islets tissue of cod (gadus collarias) and the isolation and translation of cod proinsulin.	1975-76 1976-77	18,000 21,340	73
Hew, C.L. Dept. of Biochemistry Memorial Univ. of Newfoundland	BRF	The Mechanism of Antifreeze Proteins.	1977-78	3,000	73
Hew, C.L. Dept. of Biochemistry Memorial Univ. of Newfoundland	MRCC/CRMC	Preproinsulin. Biological anti-freeze.	1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	30,400 31,975 51,150 46,840 53,778 71,700 71,656	73

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Hew, C.L. Dept. of Clinical Biochemistry Univ. of Toronto	MRCC/CRMC	Biological antifreeze.	1983-84	71,656	73
Himms-Hagen, J. Dept. of Biochemistry Univ. of Ottawa	MRCC/CRMC	Hormonal regulation of metabolism in normal and in cold-acclimated animals.	1974-75 1975-76 1976-77 1977-78 1978-79	40,800 59,000 50,940 56,966 50,772	73
Himms-Hagen, J. Dept. of Biochemistry Univ. of Ottawa	MRCC/CRMC	Non-shivering thermogenesis in brown adipose tissue: control, normal adaptive changes and abnormalities in disease states.	1979-80 1980-81 1981-82 1982-83 1983-84	54,800 51,131 64,820 86,275 91,450	73
Lacroix, L.J. Dept. of Plant Science Univ. of Manitoba	NSERCC/ CRSNGC	1) Studies of seed development and dormancy in cereals 2) Studies of frost tolerance of plants.	1974-75 1975-76 1976-77 1977-78 1978-79	10,000 11,410 12,000 13,000 13,788	73
Lacroix, L.J. Dept. of Plant Science Univ. of Manitoba	NSERCC/ CRSNGC	1) Studies of frost tolerance of plants 2) Studies of tuber induction of potatoes.	1979-80 1980-81 1981-82	12,000 13,176 14,494	73
Lafrance, L. Dep. de Physiologie Univ. Laval	MRCC/CRMC	Free fatty acid metabolism and the enhanced calorigenic response to noradrenaline in cold adapted rats.	1977-78 1978-79 1979-80	19,500 20,085 5,025	73
Leblanc, J. Dep. de Physiologie Univ. Laval	NDD/MDN DRB/CRD	Assessment of cold reactivity by autonomic nervous system response.	1974-75 1975-76	6,000 6,000	73
Leblanc, J. Dep. de Physiologie Univ. Laval	HF/FMC	Effets cardiovasculaires du froid chez l'homme.	1975-76 1976-77	3,000 4,000	73
Leblanc, J. Dep. de Physiologie Univ. Laval	MRCC/CRMC	Autonomic nervous system and adaptation to cold.	1977-78 1978-79 1979-80 1980-81	28,800 29,378 32,390 30,013	73
Leblanc, J. Dep. de Physiologie Univ. Laval	NDD/MDN DRB/CRD	Study of heat production in humans during cold exposure, exercise training and with various diets.	1983-84	28,412	73

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Leduc, J. Dép. de Physiologie Univ. de Montréal	MRCC/CRMC	Rôle des catecholamines au cours de l'exposition et de l'acclimatation au froid.	1974-75 1975-76 1976-77 1977-78	15,750 19,000 21,978 24,640	73
Longton, R.E. Dept. of Botany Univ. of Manitoba	NRCC/CNRC	Climatic adaptation and experimental systematics of bryotphytes with particular reference to boreal and polar climates.	1977-78 1978-79	10,000 7,000	73
Lumis, G.P. Dept. of Horticultural Science Univ. of Guelph	NRCC/CNRC	Physical and anatomical response of woody plants to stress induced by freezing and low temperatures.	1974-75	6,000	73
Martin, S.M. Dept. of Biology Mount St. Vincent Univ.	NSERCC/ CRSNGC	Chronic diazepam ingestion, cold exposure and body temperature regulation.	1981-82	6,000	73
Martin, S.M. Dept. of Biology Mount St. Vincent Univ.	NSERCC/ CRSNGC	Diazepam, exercise and body temperature changes in man during cold exposure.	1979-80	6,300	73
Parker, G.H. Dept. of Biology Laurentian Univ. of Sudbury	NRCC/CNRC	Role of muscle fibre types in shivering and non-shivering thermogenesis.	1976-77	8,500	73
Parker, G.H. Dept. of Biology Laurentian Univ. of Sudbury	NRCC/CNRC	1) Role of muscle fibre types in shivering and non-shivering thermogenesis 2) Cytologic metabolic characteristics of heat-induced and cold-induced brown adipose tissue.	1977-78	9,500	73
Pruzanski, W. Fac. of Medicine Univ. of Toronto	MRCC/CRMC	Investigation of cold agglutinins, cold agglutinin-producing cells and corresponding antigens on target cells.	1979-80 1980-81 1981-82 1983-84	18,500 19,332 22,256 24,926	73
Rauch, J.C. Dept. of Zoology Univ. of Manitoba	NRCC/CNRC	Hemodynamic parameters in hibernation, hypothermia, euthermia, and anaesthesia.	1974-75	5,000	73
Rauch, J.C. Dept. of Zoology Univ. of Manitoba	NRCC/CNRC	Physiology of temperature regulation: hibernation, hypothermia, normothermia, acclimation and adaptation to cold.	1975-76 1976-77 1977-78	7,800 8,000 8,672	73

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Rauch, J.C. Dept. of Zoology Univ. of Manitoba	NSERCC/ CRSNGC	Bioenergetics and physiology of temperature regulation: Energy requirement of small mammals in the cold; biochemical, physiological and behavioural adjustments in cold-acclimated and/or cold-adapted animals; physiological aspects of hibernation and hypothermia.	1978-79	6,550		73
Rauch, J.C. Dept. of Zoology Univ. of Manitoba	NSERCC/ CRSNGC	Temperature regulation: Adaptations in energy utilization by endotherms in cold environments.	1980-81 1981-82 1982-83 1983-84	7,800 10,300 11,897 12,611		73
Ring, R.A. Dept. of Biology Univ. of Victoria	NRCC/CNRC	Physiology and endocrinology of diapause and cold-hardiness in insects.	1974-75 1975-76 1976-77	6,000 6,845 6,000		73
Ring, R.A. Dept. of Biology Univ. of Victoria	NSERCC/ CRSNGC	Cold hardiness and frost resistance of insects and intertidal invertebrates.	1977-78 1978-79	6,000 4,680		73
Ring, R.A. Dept. of Biology Univ. of Victoria	NSERCC/ CRSNGC	1) Cold hardiness and frost tolerance of insects (including winter moth). 2) Integrated control of the winter moth (Operophtera brumata) on S. Vancouver Island.	1979-80	4,700		73
Ring, R.A. Dept. of Biology Univ. of Victoria	NSERCC/ CRSNGC	Cold hardiness and freezing tolerance of insects, with special emphasis on Arctic insects.	1982-83 1983-84	15,000 10,600		73
Shephard, R.J. Dept. of Preventative Medicine and Biostatistics Univ. of Toronto	SSC/ASC NDD/MDN	Research of fat loss induced by exercise in cold on man.	1978	12,287	(B.58)	73
Shephard, R.J. Dept. of Preventative Medicine and Biostatistics Univ. of Toronto	NDD/MDN DRB/CRD	Fat loss induced by exercise in cold.	1978-79 1979-80	3,720 3,723		73
Shephard, R.J. Dept. of Physical and Health Education Univ. of Toronto	NDD/MDN DRB/CRD	Fat-carbohydrate-protein shunts during fat loss induced by exercise in the cold.	1983-84	21,266		73

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Storey, K.B. Dept. of Biology Carleton Univ.	ACF	To study the biochemical adaption of terrestrial frogs for survival of winter freezing.	1983-84	25,650	73
Thibault, M.C. and Leblanc, J. Dep. de Physiologie Univ. Laval	MDAC/ACDM	Sensibilization of muscles to catecholamines after adaptation to cold, training and isoproterenol.	1976-77 1977-78 1978-79	4,615 4,625 6,850	73
Thompson, R.J. Marine Sciences Research Laboratory Memorial Univ. of Newfoundland	NRCC/CNRC	Effects of low temperature on the physiology of the blue mussel.	1974-75	4,000	73
Thompson, R.J. Marine Sciences Research Laboratory Memorial Univ. of Newfoundland	NRCC/CNRC	Environmental physiology of marine invertebrates, with special reference to responses to low temperature.	1975-76 1976-77	4,875 6,000	73
Thompson, R.J. Marine Sciences Research Laboratory Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	Environmental physiology of mussels and scallops with special reference to responses to low temperature.	1977-78 1978-79 1979-80 1980-81	9,000 11,250 11,644 12,785	73
Thompson, R.J. Marine Sciences Research Laboratory Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	High speed centrifuge and rotors.	1980-81	10,297	73
Thompson, R.J. Marine Sciences Research Laboratory Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Environmental physiology of marine invertebrates in a cold environment.	1981-82 1982-83 1983-84	15,800 18,243 19,344	73
Wagenaar, E.B. Dept. of Biological Sciences Univ. of Lethbridge	NRCC/CNRC	1) Mitosis. 2) Cold adaption in plants. 3) Evolutionary studies of diploid and polyploid speciation in plants.	1974-75 1975-76 1976-77	16,000 18,250 18,720	73

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Wagenaar, E.B. Dept. of Biological Sciences Univ. of Lethbridge	NRCC/CNRC	Liquid Scintillator with 3 channel refrigerated system. Polyploid speciation in plants.	1974-75	10,000	73
Wang, L. Dept. of Zoology Univ. of Alberta	NRCC/CNRC	1) Physiology of mammalian hibernation: a combined field and laboratory study. 2) Aspects of metabolism-circulation interaction in seasonal acclimatization.	1974-75 1975-76	8,000 9,125	73
Wang, L. Dept. of Zoology Univ. of Alberta	NRCC/CNRC NSERCC/ CRSNGC	Homeotherms in cold: an ecophysio-biochemical evaluation of thermogenic strategies and adaptations.	1976-77 1977-78 1978-79	12,000 13,000 13,788	73
Wang, L. Dept. of Zoology Univ. of Alberta	NSERCC/ CRSNGC	Homeotherms in cold: Strategies and adaptations.	1979-80 1980-81 1981-82 1982-83 1983-84	19,455 21,362 23,498 33,500 35,510	73
Wang, L. Dept. of Zoology Univ. of Alberta	NSERCC/ CRSNGC	Gas chromatograph with computing integrator.	1980-81	24,500	73
Wang, L. Dept. of Zoology Univ. of Alberta	NSERCC/ CRSNGC	Oxygen and carbon dioxide analyzers.	1980-81	16,525	73

BLOODSUCKING INSECTS (STUDY AND CONTROL) / INSECTES PIQUEURS, DÉMOUSTICATION

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Aubin, A. Dép. de Chimie-biologie Univ. du Québec à Trois-Rivières	NRCC/CNRC NSERCC/ CRSNGC	Démoustication: Rôle du moustique dans le flux d'énergie des biocénoses marécageuses.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	4,000 2,925 4,000 6,000 6,360 6,583		74*
Aubin, A. Dép. de Chimie-biologie Univ. du Québec à Trois-Rivières	NRCC/CNRC	Recherche sur la démoustication.	1975-76	15,000		74*
Aubin, A. et al. Dép. de Chimie-biologie Univ. du Québec à Trois-Rivières	NRCC/CNRC	Les insectes piqueurs et leur environnement.	1977-78	7,500		74*
Belloncik, S.A. Dep. de Chimie-biologie Univ. du Québec à Trois-Rivières	NRCC/CNRC	Infections virales des moustiques. Application à un programme de contrôle des Culicides (démoustication).	1974-75 1975-76 1976-77	4,000 3,900 4,000		74
Belloncik, S.A. Dép. de Chimie-biologie Univ. du Québec à Trois-Rivières	NRCC/CNRC	Évaporateur Cooke avec accessoires.	1975-76	5,000		74
Belloncik, S.A. Dep. de Chimie-biologie Univ. du Que. à Trois-Rivieres	NRCC/CNRC	Achat d'incubateurs.	1976-77	12,000		74
British Columbia Research Council Vancouver, B.C.	NDD/MDN DRB/CRD	Continuation of the study of the effects of juvenile hormone analogues (JHA) on the immature stages of black flies.	1974	10,453	(B.15)	74

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
British Columbia Research Council Vancouver, B.C.	SSC/ASC AC	Development of new methods for the control of biting flies in northern Canada.	1977	84,808	(B.51)	74
Brust, R.A. Dept. of Entomology Univ. of Manitoba	NDD/MDN DRB/CRD	Colonization and egg diapause in Aedes mosquitoes.	1974-75 1975-76	69,000 5,300		74
Brust, R.A. Dept. of Entomology Univ. of Manitoba	AC	Dispersal behaviour of adult mosquitoes.	1974-75 1975-76	4,000 4,500		74
Brust, R.A. Dept. of Entomology Univ. of Manitoba	NRCC/CNRC	1) Reproductive biology and behaviour of Aedes mosquitoes. 2) Biological control of mosquitoes.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	14,000 15,970 16,380 23,000 24,380 25,233 32,000 35,200 40,656		74
Brust, R.A. Dept. of Entomology Univ. of Manitoba	AC	Biology of Mermithidae in mosquitos.	1976-77	5,500		74
Brust, R.A. Dept. of Entomology Univ. of Manitoba	AC	Biology of Mermithidae in mosquitos and black flies.	1977-78	6,000		74
Brust, R.A. Dept. of Entomology Univ. of Manitoba	NSERCC/ CRSNGC	Reproduction biology of mosquitoes. Biological control of mosquitoes.	1983-84	37,100		74
Chance, M.M. Univ. of Manitoba	NDD/MDN DRB/CRD	Biological control of black flies with Bt-H-14.	1982-83	12,451		74
Chance, M.M. Univ. of Manitoba	SSC/ASC NDD/MDN	Biological control of black flies with BTH-14 bacteria.	1983	24,902	(B.121)	74

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Charpentier, G. Dép. de Chimie - biologie Univ. du Québec à Trois-Rivières	NSERCC/ CRSNGC	Recherche des entomopathogènes de mouches noires (simuliidae) et essais de contrôles de populations en laboratoire dans un but de lutte biologique.	1981-82 1982-83	9,000 4,500		74
Colbo, M.H. Research Unit on Vector Pathology Memorial Univ. of Newfoundland	NRCC/CNRC	Ecology of blackflies and their mermithid parasites in Newfoundland streams.	1977-78 1978-79 1979-80	7,000 7,420 7,680		74
Colbo, M.H. Research Unit on Vector Pathology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Ecology of blackflies and the associated fauna.	1980-81 1981-82 1982-83	13,000 14,300 16,517		74
Colbo, M.H. Research Unit on Vector Pathology Memorial Univ. of Newfoundland	SSC/ASC PWC/TPC	Conduct a fly biting program in Goose Bay, Labrador.	1982	3,000	(B.114)	74*
Colbo, M.H. Research Unit on Vector Pathology Memorial Univ. of Newfoundland	SSC/ASC NDD/MDN	Development of a field protocol for the ground application of bacillus thuringiensis var. Israelensis as a blackfly larvicide in Northern Canada.	1982	109,041	(B.117)	74
Downe, A.E. Dept. of Biology Queen's Univ. at Kingston	NSERCC/ CRSNGC	Feeding and mating in haematophagous insects.	1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	19,000 19,080 19,748 34,000 37,400 43,197 48,760		74
Downe, A.E. Dept. of Biology Queen's Univ. at Kingston	NRCC/CNRC	Liquid scintillation counter.	1977-78	15,000		74

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Downe, A.E. Dept. of Biology Queen's Univ. at Kingston	NSERCC/ CRSNGC	Refrigerated centrifuge.	1981-82	15,525	74
Downer, R.G.H. Dept. of Biology Univ. of Waterloo	NDD/MDN DRB/CRD	Juvenile hormone for mosquito control.	1974-75 1975-76	7,500 4,700	74
Finney, J.R. Dept. of Pathology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	The in vivo culture of a mermithid for control of Canadian mosquitoes.	1978-79 1979-80 1980-81	5,150 5,330 5,852	74
Fitz-Earle, M. Univ. of British Columbia	CC/CAC	Genetics: Insect control using genetic techniques.	1974-75	4,957	74
Friend, W.G. Dept. of Zoology Univ. of Toronto	NSERCC/ CRSNGC	Comparative studies in physiology, nutrition and feeding behaviour of blood-feeding insects.	1979-80 1980-81 1981-82 1982-83 1983-84	22,550 20,500 22,550 25,000 26,500	74
Gordon, R. Dept. of Biology Memorial Univ. of Newfoundland	DRB/CRD	Mermithid parasites of blackflies.	1974-75	5,000	74
Gordon, R. Dept. of Biology Memorial Univ. of Newfoundland	NRCC/CNRC	Physiology, host-parasite interrelations and in vitro culture of selected mermithid parasites of blackflies and mosquitos.	1974-75 1975-76 1976-77 1977-78	5,000 10,725 11,000 11,924	74
Graham, K. Fac. of Forestry Univ. of British Columbia	NRCC/CNRC	1) Development of a population sampling system for the larch case bearer. 2) Blackflies, an entomological element of forest ecosystems or problem evaluation.	1975-76 1976-77 1977-78	6,825 7,000 7,588	74

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Laird, M. Research Unit on Vector Pathology Memorial Univ. of Newfoundland	NRCC/CNRC	Biological control of blackflies and mosquitoes.	1974-75 1975-76	57,500 60,000	74
Laird, M. Research Unit on Vector Pathology Memorial Univ. of Newfoundland	NRCC/CNRC	The mass cultivation and industrial exploitations of microbial pathogens of blackfly and mosquito pests and disease vectors.	1976-77 1977-78 1978-79	60,000 60,000 133,000	74
Laird, M., Colbo, M.H. and Finney, J.R. Research Unit on Vector Pathology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Bacillus thuringiensis var. israelensis for blackfly control.	1979-80 1980-81 1981-82	15,000 16,470 18,345	74
Maire, A.R. Dep. de Chimie-biologie Univ. du Quebec à Trois-Rivières	NRCC/CNRC NSERCC/ CRSNGC	Synécologie des zones humides temporaires favorables au developpement des populations larvaires de moustiques (Diptères, Culicides).	1977-78 1978-79 1979-80	9,000 9,540 9,874	74*
Maire, A.R. Dep. de Chimie - biologie Univ. du Quebec à Trois-Rivières	NSERCC/ CRSNGC	Synécologie des zones humides à larves de moustiques.	1980-81 1981-82 1982-83	10,000 11,000 12,705	74*
Maire, A.R. Dep. de Chimie - biologie Univ. du Quebec à Trois-Rivières	NSERCC/ CRSNGC	Sélectivité des femelles de moustiques pour leurs sites naturels d'oviposition.	1983-84	23,320	74*
Nolan, R.A. Dept. of Biology Memorial Univ. of Newfoundland	NRCC/CNRC	In vitro studies on the resistant sporangium of the fungus Coelomomyces, a mosquito and blackfly parasite, and studies of the role of fungi and bacteria in the ecology of blackfly streams.	1975-76	9,775	74

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Nolan, R.A. Dept. of Biology Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	Studies on the role of fungi in the ecology of blackfly streams, studies on the use of fungi in biological control and taxonomic studies in the genus Coelomomyces.	1976-77 1977-78 1978-79 1979-80 1980-81 1981-82	14,000 15,176 16,087 32,000 35,136 38,650	74
Nolan, R.A. Dept. of Biology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Studies on the role of fungi in the ecology of freshwater habitats: studies on the use of fungi in biocontrol and taxonomic studies in the genus Coelomomyces.	1982-83	41,000	74
Nolan, R.A. Dept. of Biology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Studies on fungi from freshwater ecosystems and on the use of fungi in biocontrol.	1983-84	36,040	74
Orr, D.E. Dept. of Chemistry Lakehead Univ.	NDD/MDN DRB/CRD	Black fly control by chemical methods.	1974-75	1,400	74
Orr, D.E. Dept. of Chemistry Lakehead Univ.	NRCC/CNRC	Identification of black fly attractant in preen gland extract of the common loon (Gavia immer).	1975-76 1976-77 1977-78	2,925 3,000 3,252	74
Parent, J. Univ. du Québec à Trois-Rivières	NRCC/CNRC	Travaux du groupe de recherche sur la démoustication.	1974-75	14,000	74*
Philogène, B.J.R. Dept. of Biology Univ. of Ottawa	NDD/MDN DRB/CRD	Study into the effects of plan chem. in blood-feeding insects.	1983-84	29,283	74
Philogene, B.J.R. Dept. of Biology Univ. of Ottawa	NDD/MDN DRB/CRD	Phototoxic compounds and potential use against insects.	1983-84	39,100	74
Shephard, R.J. Dept. of Physical and Health Education Univ. of Toronto	NDD/MDN DRB/CRD	Mechanisms regarding fat loss in the cold.	1983-84	4,956	74
Smith, J.J.B. Dept. of Zoology Univ. of Toronto	NRCC/CNRC	Taste reception in blood-feeding insects and hearing in lower vertebrates.	1974-75	6,500	74

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Smith, J.J.B. Dept. of Zoology Univ. of Toronto	NRCC/CNRC	Physiology of feeding and chemoreception in blood-feeding insects.	1975-76 1976-77 1977-78 1978-79	7,315 11,000 11,924 12,639		74
Smith, S.M. Dept. of Biology Univ. of Waterloo	NDD/MDN DRB/CRD	The control of Northern mosquitoes by mermithid parasites.	1974-75	5,500		74
Smith, S.M. Dept. of Biology Univ. of Waterloo	NRCC/CNRC	1) Biology of Toxorhynchites brevipalpis (Diptera: Culicidae). 2) Oogenesis and population dynamics of black-flies (Diptera: Simuliidae). 3) Biology of tree-hole mosquitoes, with emphasis on interspecific phenomena (competition).	1974-75 1975-76 1976-77 1977-78	5,000 5,850 6,000 6,504		74
Smith, S.M. Dept. of Biology Univ. of Waterloo	NSERCC/ CRSNGC	Oogenesis and population dynamics of mosquitoes and blackflies.	1978-79 1979-80 1980-81	9,000 9,315 10,228		74
Surgeoner, G.A. Dept. of Environmental Biology Univ. of Guelph	NDD/MDN DRB/CRD	An Evaluation of selective methods for the control of black fly larvae (diptera: simuliidae) using simulated streams.	1980-81 1981-82 1982-83 1983-84	6,660 20,602 20,279 23,809		74
Surgeoner, G.A. and Helson, B.V. Dept. of Environmental Biology Univ. of Guelph	SSC/ASC NDD/MDN	Evaluation of selective methods for the control of black fly larvae (diptera: Simuliidae) using simulated streams.	1980	58,050	(B.87)	74
Sutcliffe, J.F. Dept. of Biology Univ. of Waterloo	NSERCC/ CRSNGC	Studies of black fly (Insects: Diptera: Simuliidae) feeding behaviour.	1981-82 1982-83 1983-84	11,000 12,705 13,467		74
Sutcliffe, J.F. Dept. of Biology Univ. of Waterloo	NSERCC/ CRSNGC	Compound light microscope and supporting hardware.	1981-82	18,275		74

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Sutherland, G.B. Dept. of Physiology Univ. of Saskatchewan	MRCC/CRMC	Response to mosquitoes ingesting blood from specifically sensitized mammals.	1975-76 1976-77 1977-78	12,000 11,640 2,910	74
Undeen, A.H. Dept. of Vector Pathology Memorial Univ. of Newfoundland	NRCC/CNRC	Microsporidan transmission in blackflies.	1977-78	6,500	74
Undeen, A.H. Dept. of Vector Pathology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Transmission and bioassay of simuliid pathogens.	1978-79 1979-80 1980-81	7,025 7,271 7,984	74
Webster, G.R.B. Dept. of Soil Science Univ. of Manitoba	NRCC/CNRC	The juvenile hormone analog methoprene (Altosid) for mosquito and black fly control in Canada: Quantitation of degradation.	1975-76	5,365	74
Webster, G.R.B. Dept. of Soil Science Univ. of Manitoba	NRCC/CNRC NSERCC/ CRSNGC	Three new mosquito and blackfly larvicides, methoprene, dimilin, and chlorpyrifos: Quantitative analysis of degradation products in the environment.	1976-77 1977-78 1978-79 1979-80	7,000 8,000 8,480 8,777	74
Wellington, W.G. Dept. of Plant Science Univ. of British Columbia	AC	Studies of mosquito behavior amenable to population management.	1978-79 1979-80	6,000 6,500	74

TERRAIN DISTURBANCE / MODIFICATION DU SOL

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
French, H.M. Dept. of Geography and Regional Planning Univ. of Ottawa	SSC/ASC INAC/AINC	Study to evaluate the nature and extent of recent terrain disturbances, Banks Island, District of Franklin, N.W.T.	1975	34,500	(B.26)	75
French, H.M. Dept. of Geography and Regional Planning Univ. of Ottawa	SSC/ASC INAC/AINC	Terrain sensitivity and disturbance studies in the Canadian Arctic.	1976	60,009	(B.39)	75
Smith, D.W. Dept. of Botany and Genetics Univ. of Guelph	SSC/ASC INAC/AINC	Study of the biological changes resulting from terrain disturbances in the Canadian Arctic.	1977 1978 1979 1980 1981	47,634 71,092 105,704 92,223 54,986	(B.51) (B.62) (B.73) (B.85) (B.102)	75

NOUVEAU-QUÉBEC - LABRADOR / NOUVEAU-QUÉBEC - LABRADOR

NAME / NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Alain, M. Cap-Sante, Que.	SSC/ASC DMI/MMI	Étude de services d'examen et d'orientation fournis aux autochtones.	1975	11,700	(B.29)	100/ 16
Allard, M. Dep. de Geographie Univ. Laval	NSERCC/ CRSNGC	Géomorphologie littorale et processus périglaciaires côtiers.	1980-81	6,780		100/ 6
Allard, M. Dep. de Geographie Univ. Laval	NSERCC/ CRSNGC	Les environnements côtiers de l'Hudsonie.	1982-83 1983-84	10,000 10,600		100/ 6
Allard, M., Dionne, J.-C et Tremblay, G. Dep. de Geographie Univ. Laval	NSERCC/ CRSNGC	Géomorphologie littorale et périglaciaire.	1981-82 1982-83 1983-84	18,000 18,000 14,500		100/ 6
Allderdice, P.W. Dept of Biochemistry Memorial Univ. of Newfoundland	MRCC/CRMC	Population cytogenetics in Newfoundland and Labrador 1. Effect of a pericentric inversion on reproductive fitness in humans 2. Genetic linkage in an extended family including a cluster of cases of lymphoma.	1975-76 1976-77	30,000 30,600		100
Allderdice, P.W. Dept. of Cytogenetics Memorial Univ. of Newfoundland	MRCC/CRMC	Mapping the human genome through genetic analysis of kindreds from population isolates of Newfoundland and Labrador.	1977-78	31,710		100
Allderdice, P.W. Dept. of Cytogenetics Memorial Univ. of Newfoundland	MRCC/CRMC	Population cytogenetics in Newfoundland and Labrador (The investigation of partial trisomies).	1978-79 1979-80	52,478 32,066		100
Allen, L. Ottawa, Ont.	SSC/ASC EC	Preparation of maps of James Bay and documentation to accompany waterfowl intensity-of-use maps for James Bay and Hudson Bay.	1975	6,000	(B.28)	100/ 21

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Anderson, L. Dartmouth, N.S.	SSC/ASC DFO/MPO	Study of the alkalinity-total carbonate measurements in Hudson Strait and Northern Hudson Bay.	1983	3,000	(B.122)	100/ 53
Angnatuk, G. Koartak, Que.	SSC/ASC CD/MC	Collaboration on installation operation and evaluation of a trail and remote camp radio system for use by Inuit people at Koartak.	1977	5,080	(B.52)	100
Atlantic Biological Services Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Identification and enumeration of larvae of Pandalus Borealis in plankton samples from Labrador waters.	1980	4,994	(B.88)	100
Atmospheric Dynamics Corporation Elmira, Ont.	SSC/ASC DFO/MPO	Feasibility study of the influence of Hudson/James Bay water bodies on local and global climate.	1980	6,560	(B.90)	100/ 5
Aubin, A. Dép. de Chimie-biologie Univ. du Québec à Trois-Rivières	NRCC/CNRC NSERCC/ CRSNGC	Démoustication: Rôle du moustique dans le flux d'énergie des biocénoses marécageuses.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	4,000 2,925 4,000 6,000 6,360 6,583		100/ 74
Aubin, A. Dép. de Chimie-biologie Univ. du Québec à Trois-Rivières	NRCC/CNRC	Recherche sur la démoustication.	1975-76	15,000		100/ 74
Aubin, A. et al. Dép. de Chimie-biologie Univ. du Québec à Trois-Rivières	NRCC/CNRC	Les insectes piqueurs et leur environnement.	1977-78	7,500		100/ 74
Aubry, Y. Ste-Foy, Que.	SSC/ASC EC	Préparation de données sur les oiseaux migrateurs à la Baie James.	1982	6,000	(B.115)	100
Baer, A.J. Fac. of Science and Engineering Univ. of Ottawa	NSERCC/ CRSNGC	1) Structural studies in the Grenville Province 2) Evolution of Proterozoic orogenes.	1982-83 1983-84	18,000 19,080		100
Bairstow, D. Montreal, Que.	CC/CAC	15-minute, 16mm art film entitled Love from the Cold Country.	1976-77	15,000		100/ 11

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Baxter, R. Dorval, Que.	SSC/ASC EC	Studies of anadromous and freshwater fishes in the James Bay Area.	1974	4,750	(B.21)	100
Baxter, R. Dorval, Que.	SSC/ASC EC	Study of anadromous and coastal fish stocks which might be affected by the James Bay hydro electric project.	1975	5,500	(B.33)	100
Beak Consultants Limited Toronto, Ont.	SSC/ASC EC	An oceanographic survey of La Grande Estuary, James Bay.	1974	28,896	(B.18)	100
Beaulieu, A. Ottawa, Ont.	SSC/ASC EC	Modificatif apporté au contrat touchant l'évaluation des répercussions sur l'aménagement proposé du secteur de la Baie James, pour que les résultats de l'étude traduisent les récents changements apportés aux plans d'aménagement hydro-électrique par la Société de développement de la Baie James.	1974	3,400	(B.13)	100
Beaulieu, A. Amherst, N.S.	SSC/ASC EC	Préparation d'un rapport bilingue décrivant en détail les activités du ministère de l'Environnement dans la région de la baie James.	1974	9,200	(B.21)	100
Beaulieu, A. Montreal, Que.	SSC/ASC EC	Préparation de rapports récapitulatifs bilingues sur les projets entrepris par le ministère de l'Environnement dans la région de la baie James en 1975 et de 1972 à 1975.	1976	11,350	(B.34)	100
Beliveau, N. Fac. de Pharmacie Univ. de Montréal	SSC/ASC AC	Études des méthodes d'extractions pour la standardisation d'huiles essentielles de la région boréale du Québec.	1983	90,000	(B.124)	100/ 2
Bell, K. Dept. of Geology Carleton Univ.	EMRC	Provision of isotopic age determinations of rock units from the Central Metasedimentary Belt of the Grenville Province of the Canadian Shield.	1978-79	20,600		100
Bell, R.E. McGill Univ.	INAC/AINC	Grant to support research into the historical factors affecting food consumption patterns among Indian people in Northern Canada.	1978-79	5,400		100/ 11

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Benedict, C.P. Fac. of Engineering and Applied Science Memoral Univ. of Newfoundland	SSC/ASC CD/MC	Study and evaluation of the possible sociological benefits and design criteria of operational orbiting satellites for communications with remote communities in Newfoundland and Labrador.	1974	7,000	(B.10)	100
Benedict, C.P. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NDD/MDN DRB/CRD	Iceberg cross-section echo.	1974-75	10,000		100/ 40
Benedict, C.P. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NRCC/CNRC	Iceberg cross-section echo.	1974-75 1975-76 1976-77 1977-78 1978-79	5,500 6,275 6,000 6,504 6,894		100/ 40
Benedict, C.P. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NRCC/CNRC	Photometric equipment.	1974-75	6,982		100/ 40
Berkes, F. Dept. of Environmental Biology, Brock Univ.	NRCC/CNRC	The productivity and exploitation of anadromous whitefish (Coregonus clupeaformis) and cisco (C. artedii) in the eastern James Bay area, northern Quebec.	1975-76 1976-77	4,875 5,000		100
Berkes, F. Interdisciplinary Studies Concordia Univ.	NRCC/CNRC	Productivity and exploitation of sea-run fish in the Fort Chimo area, Ungava Bay.	1977-78	5,000		100
Berkes, F. Dept. of Anthropology Brock Univ.	SSHRCC/ CRSHC	Adaptations of subsistence fisheries in Fort George, northern Québec.	1978-79 1980-81	5,205 5,325		100
Berkes, F. Dept. of Anthropology Brock Univ.	SSHRCC/ CRSHC	Cree fisheries and impact of power development in James Bay.	1982-83	9,650		100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Berry, J.W. Dept. of Psychology Queen's Univ. at Kingston	SSHRCC/ CRSHC	Psychological and cultural impact of technological change in the North: the case of the James Bay Cree.	1978-79 1979-80	25,794 13,721		100/ 11
Berry, J.W. and Wintrob, R.M. Queen's Univ. at Kingston and Univ. of Connecticut	CC/CAC	Psychology: Psychological and cultural impact of technological change on the North - the case of the James Bay Cree.	1975-76	12,000		100/ 11
Bio-Conseil Incorporée Québec, Qué.	SSC/ASC EC	Étude sur la sensibilité des eaux du Québec aux effets des pluies acides.	1980	9,600	(B.92)	100
Bio-Conseil Incorporée Québec, Qué.	SSC/ASC EC	Cartographie des données de base du territoire du Nouveau-Québec - oiseaux, gros gibier et petit gibier.	1982	16,450	(B.107)	100
Bond Architects and Engineering Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Provide specifications for the installation of salt water washdown systems throughout Newfoundland and Labrador.	1981	63,915	(B.101)	100
Bondy, D.A. Willowdale, Ont.	SSC/ASC EC	Co-ordination of the Atmospheric Environment Service (AES) James Bay program for investigation into land use and to undertake a study of synoptic climatology of the James Bay and Northern Quebec regions.	1974	3,211	(B.10)	100/ 5
Bonn, F.J. Dubois, J.M. et Gwyn, Q.H.J. Dép. de Géographie Univ. de Sherbrooke	NSERCC/ CRSNGC	Développement de méthodologies d'interprétation quantitative des images de télédétection et géomorphologie continentale et littorale.	1983-84	30,000		100/ 6
Borlase, T.J. Goose Bay, Nfld.	CC/CAC	To hold an arts festival in which young people from the remote regions of Labrador will participate.	1975-76	3,000		100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT	NO./ NO
Bouchard, M.A. Dep. de Géologie Univ. de Montréal	NSERCC/ CRSNGC	Pétrographie et morphologie du till, région de Chibougamau-Lac-Mistassini, Québec	1982-83 1983-84	10,000 10,600	100
Bouchard, M.A. et Gangloff, P. Centre de recherches écologiques de Montréal Univ. de Montréal	NSERCC/ CRSNGC	Mise au point d'une méthode d'analyse quantitative et intégrée des composantes physiques et biologiques d'un écosystème terrestre.	1983-84	21,200	100
Bouchard, M.A. et Occhietti, S. Dep. de Géographie Univ. du Québec à Montréal	NSERCC/ CRSNGC	Paléoenvironnements quaternaires et paléosurfaces au Québec et dans les régions périphériques.	1983-84	15,000	100/ 34
Boulet, E. Duberger, Que.	SSC/ASC EC	Finaliser le rapport monographique de Poste-de-la-Baleine.	1979	228 (B.80)	100
Bourgeron, P.S. Dep. de Biologie Univ. de Sherbrooke	NSERCC/ CRSNGC	Analyse d'une communauté distribuée en mosaique dans un environnement sévère (Nouveau-Québec).	1981-82	7,000	100
Brière, F. Dep. de Génie civil Ecole Polytechnique	NRCC/CNRC NSERCC/ CRSNGC	Étude systématique de l'opération des champs de filtration par températures froides.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	4,500 5,135 5,165 7,500 7,950 8,228	100/ 20
Brooke, L. Makivik Corp.	SSHRCC/ CRSHC	Québec workshop on Native issues.	1983-84	14,950	100/ 50
Brookes, I.A. Dept. of Geography York Univ.	NSERCC/ CRSNGC	Sea level & glacial history, W. Newfoundland: Geomorphological & micropalaeontological approaches.	1982-83 1983-84	9,000 9,540	100
Brooks, C. Dep. de Geologie Univ. de Montréal	EMRC	Radiometric study of rocks from the Belcher Islands, N.W.T.	1977-78	4,730	100/ 33

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Brooks, C. Dep. de Geologie Univ. de Montréal	NSERCC/ CRSNGC	Evolution of the Precambrian Shield of Canada as determined by geochemical, isotopic and geochronologic analysis.	1980-81 1981-82 1982-83	29,250 32,175 37,162		100/ 33
Brown, L.D. Quebec, Qué.	SSC/ASC EC	En collaboration avec le Service canadien des forêts, participation à la classification phytosociologique.	1974	3,346	(B.10)	100
Brown, S. Birmingham, England	SSC/ASC EC	Provision of a cannon-netting expert to train personnel in banding operations in James Bay.	1976	2,500	(B.40)	100
Canadian Saltfish Corporation St. John's, Nfld.	SSC/ASC DFO/MPO	Determine the practicability and viability of middle water long lining program off eastern Newfoundland and Labrador.	1983	290,000	(B.122)	100
Canning, P. Mount Saint Vincent Univ.	SSHRCC/ CRSHC	The effects of preschool education on children and families in Northern Labrador.	1983-84	11,004		100
Carter, G. Saunderstown, Rhode Island, USA	SSC/ASC DFO/MPO	Observation techniques related to whale surveys in Newfoundland and Labrador.	1980	2,293	(B.89)	100
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC DFE/MPE	A scenario for a winter sub-sea oilwell blowout in the Labrador Sea - part of the Arctic Marine Oilspill Program.	1978	54,856	(B.59)	100/ 54
Centre for Cold Ocean Resources Engineering St. John's, Nfld.	SSC/ASC DFE/MPE	Determination of iceberg grounding facts from analysis of drill rig observations.	1981	6,057	(B.97)	100/ 40
Charest, P. et McNulty, G. Univ. Laval	SSHRCC/ CRSHC	Exploitation et aménagement des ressources fauniques par les Indiens Montagnais du Quebec.	1983-84	44,840		100
Chari, T.R. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	Model studies of ocean bottom scouring by icebergs.	1976-77 1977-78 1978-79	7,000 7,588 8,043		100/ 40
Chari, T.R. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	1) Model studies of iceberg scour 2) Geotechnical properties of surficial ocean sediments. 3) In-situ penetrometer.	1979-80 1980-81 1981-82	12,000 13,176 14,494		100/ 40

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Chari, T.R. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	1) Iceberg scour studies 2) Sampling, laboratory testing and in-situ testing of marine soils 3) Ultimate capacity of laterally loaded offshore piles and pile groups.	1982-83 1983-84	20,000 21,200		100/ 40
Chari, T.R., Dempster, R.T. and Wilson, N.W. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	A comprehensive study of iceberg drift, scouring and decay.	1979-80 1980-81 1981-82	50,000 65,880 73,380		100/ 40
Choque, C. Churchill, Man.	CC/CAC	For a study of the history and roles of Catholic missions in the Hudson Bay area during the period 1912 to 1914.	1975-76	5,000		100/ 37
Church, W.R. Dept. of Geology Univ. of Western Ontario	NRCC/CNRC	Pre-Mesozoic Crustal Evolution of the North Atlantic Region: Ophiolites, eclogites, diabase dyke swarms, and peralkaline granite.	1974-75 1975-76 1976-77	9,830 9,265 6,500		100
Church, W.R. Dept. of Geology Univ. of Western Ontario	NSERCC/ CRSNGC	1) Pre-Mesozoic crustal evolution of the North Atlantic region: ophiolites; eclogite-granulite complexes; alkali gabbro-peralkaline granite associations. 2) Geology of the northern Grenville Province: the garnet-bearing metadiabases. 3) Ultramafic rocks of the Thompson belt.	1977-78 1978-79 1979-80	9,150 9,699 10,038		100
Colbo, M.H. Research Unit on Vector Pathology Memorial Univ. of Newfoundland	SSC/ASC PWC/TPC	Conduct a fly biting program in Goose Bay, Labrador.	1982	3,000	(B.114)	100/ 74

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Collerson, K.D. Dept. of Geology Memorial Univ. of Newfoundland	NRCC/CNRC	Strucutral, petrological and geochemical studies in the Nain Province, Labrador.	1974-75 1975-76	7,100 15,115		100
Collerson, K.D. Dept. of Geology Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	Crustal development of Archean rocks in the Nain Province, Labrador.	1976-77 1977-78 1978-79	15,500 16,802 17,810		100
Collerson, K.D. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	The development of Archean and Proterozoic crust in Northern Labrador.	1979-80 1980-81	21,000 23,058		100
Collin, G.J. et Phan, L.C. Université du Québec a Chicoutimi	NSERCC/ CRSNGC	Recherche relative au givrage des lignes de transport d'énergie.	1980-81	26,200		100/ 15
Compagnie de danse Entre-Six/Entre-Six Dance Company Montreal, Que.	CC/CAC	Touring Grants/Aide aux tournées de spectacles.	1978-79	25,000		100
Computing Devices Company Ottawa, Ont.	SSC/ASC EC	Technical support services to provide complete hyperbolic positioning coverage over James Bay in support of hydrographic and oceanographic data collection.	1975	181,140	(B.24)	100/ 58
Computing Devices Company Ottawa, Ont.	SSC/ASC EC	Technical services to provide hyperbolic positioning coverage over James Bay in support of multidisciplinary scientific data collection.	1976	91,049	(B.35)	100/ 58
Congres international sur la limite des forets: Québec Nordique Poste-de-la-Baleine, Qué.	NSERCC/ CRSNGC	Conference Grants/Subventions pour conférences (PQ - juin et juillet 1981).	1981-82	9,200		100/ 28

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Conseil communautaire des Inuit de Koartak Incorporé Koartak, Qué.	SSC/ASC EC	Prestation de services d'observation et de transmission météorologiques et entretien d'une station météorologique du Service de l'Environnement atmosphérique située à Koartak, au Québec.	1979 1980	40,139 81,876	(B.77) (B.91)	100
Cooke, H.B.S. Dept. of Geology Dalhousie Univ.	SSC/ASC EMRC	Investigation of the elemental composition of trace quantities of volcanic ash in Labrador sea sediments.	1979	990	(B.73)	100
Cooke, W.J. Calgary, Alta.	SSC/ASC EMRC	Development of cost estimates for oil and gas production systems for the Nova Scotia and Labrador shelves.	1976	4,900	(B.39)	100
Côté, C. Centre d'Études nordiques Univ. Laval	SSC/ASC EMRC	Opération et maintien de l'observatoire magnétique de la grande rivière de la Baleine, Poste-de-la-Baleine, Québec.	1977 1978 1979 1980 1981 1982 1983	3,000 4,000 4,400 4,400 4,400 4,800 5,000	(B.54) (B.62) (B.73) (B.87) (B.95) (B.108) (B.121)	100
Cree Regional Authority Val d'Or, Que.	CC/CAC	Explorations.	1979-80	4,000		100
Croal, J.P. Ottawa, Ont.	SSC/ASC EC	Establish and maintain a program of oceanographic observations from winter ice cover in James Bay.	1974	25,000	(B.11)	100/ 53
Croal, J.P. Ottawa, Ont.	SSC/ASC EC	A winter oceanographic survey of James Bay.	1974	18,000	(B.19)	100/ 53
Curtis, M.A. Dept. of Parasitology McGill Univ.	EC	A quantitative model of host-parasite interactions with populations of the Arctic char.	1977-78	10,000		100/ 22
Curtis, M.A. Dept. of Parasitology McGill Univ.	DFO/MPO	The effects of diphyllobothrium plerocercoids on the potential yield of arctic char, salvelinus alpinus.	1978-79	8,000		100/ 22
Curtis, M.A. Dept. of Parasitology McGill Univ.	DFO/MPO	Effects of Diphyllobothrium plerocercoids in population of the Arctic char, Salvelinus alpinus.	1979-80	6,000		100/ 22

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Curtis, M.A. Dept. of Parasitology McGill Univ.	NSERCC/ CRSNGC	Ecological/experimental parasitology.	1981-82 1982-83 1983-84	7,500 10,663 13,323		100/ 41
D'Anglejan, B.F. Marine Science Centre McGill Univ.	NRCC/CNRC NSERCC/ CRSNGC	Suspended matter transport and composition, and sedimentation processes near the benthic boundary layer in subarctic estuaries.	1977-78 1978-79 1979-80	13,150 13,939 14,427		100/ 34
Darveau, M.M. Charlesbourg-Ouest, Qué.	SSC/ASC EC	Analyses statistiques de données écologiques recueillies dans le cadre du projet du Lac St-Pierre et Baie James.	1982	2,000	(B.114)	100
David, P.P. Dép. de Géologie Univ. de Montréal	NRCC/CNRC	1) Study of eolian deposits in Canada. 2) Quaternary deposits of north-central Gaspé.	1974-75	4,375		100/ 34
David, P.P. Dép. de Geologie Univ. de Montréal	INAC/AINC	Study of eolian landforms of Canada.	1974-75	6,000		100/ 34
David, P.P. Dep. de Géologie Univ. de Montréal	NSERCC/ CRSNGC	Study of eolian deposits in Canada.	1981-82 1982-83 1983-84	6,000 7,500 7,950		100/ 34
De Cayeux, A.P. Dep. de Géologie Univ. Laval	NRCC/CNRC	Hudsonie: Sciences de la terre (étude du nivéo-éolien comprise).	1974-75	3,975		100
De Boutray, B. Dep. des Sciences de la terre Univ. du Québec à Montréal	EMRC	Cartographie des dépôts meubles sur la côte ouest de la Baie d'Ungava.	1976-77 1977-78 1978-79	6,800 2,500 6,700		100
Decker, M. Cook's Harbour, Nfld.	SSC/ASC DFO/MPO	Groundfish trawling experiments off Northeastern Newfoundland and Eastern Labrador.	1980	36,000	(B.89)	100
Delahaye, D.J. Dept. of Paediatry Queen's Univ. at Kingston	HWC/SBSC	Paediatric intervention in transitional isolated Cree Indian communities.	1977-78	20,977		100/ 46

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Delahaye, D.J. Dept. of Paediatry Queen's Univ. at Kingston	HWC/SBSC	Child and Family Health in Transitional Subarctic Indian Communities in the James Bay Area.	1978-79	24,799		100/ 46
Delisle, C.E. Dep. de Génie civil Ecole Polytechnique	NSERCC/ CRSNGC	Caractérisation et effets écologiques des précipitations sur le nord Québécois.	1980-81	5,500		100/ 1
Dempster, R.T. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NDD/MDN DRB/CRD	Prediction of iceberg drift off eastern Canada.	1974-75	8,000		100/ 40
Dempster, R.T. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	NRCC/CNRC	An investigation of the effect of wind and iceberg size on the drift of icebergs in the Labrador Current.	1974-75 1975-76 1976-77	6,000 6,845 7,020		100/ 40
Denner, W.W. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Labrador ice dynamics experiment (LIDEX) workshop.	1979-80 1980-81	20,000 14,990		100/ 40
Denner, W.W. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Numerical modeling of ice conditions in the Labrador current.	1979-80 1980-81 1981-82	11,000 12,500 3,000		100/ 40
Desjardins, M. INRS-Petrole Univ. du Québec a Quebec	EMRC	Étude des gaz adsorbés du bassin des côtes du Labrador.	1979-80	4,000		100
Dobrocky Seatech (Nfld.) Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Conduct an acid-rain headwater lakes survey in Labrador.	1982	311,599	(B.114)	100
Dobrocky Seatech (Nfld.) Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Counts and measures of lakes and watersheds in Labrador.	1983	12,903	(B.125)	100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Dodson, J.J. Dép. de Biologie Univ. Laval	NSERCC/ CRSNGC	1) L'ichtyofaune de l'estuaire de la rivière Eastmain, Baie James 2) Les interactions et la survie des larves de 3 espèces de poisson dans l'estuaire du Saint-Laurent.	1979-80 1980-81 1981-82	10,000 10,980 12,078		100
Dodson, J.J. Dép. de Biologie Univ. Laval	NSERCC/ CRSNGC	Variation in energy partitioning as the functional basis of alternative migratory and reproductive strategies in the anadromous coregonine fish of James Bay.	1982-83 1983-84	30,000 27,560		100
Drake, J.J. Dept. of Geography McGill Univ.	NSERCC/ CRSNGC	Snowmelt system and water quality investigations in Quebec.	1974-75 1975-76 1976-77 1977-78 1978-79	3,247 4,390 6,500 7,046 7,469		100
Drapeau, G. INRS-Océanographie Univ. du Québec à Rimouski	SSC/ASC EC	Étude visant à évaluer les répercussions sur la Baie James de modifications éventuelles du régime et du débit des cours d'eau qui s'y jettent.	1974	8,144	(B.12)	100
Drapeau, G. INRS-Océanographie Univ. du Québec à à Rimouski	SSC/ASC EC	Étude et relevé de l'écologie marine dans le secteur de la baie James.	1974	13,370	(B.18)	100
Drapeau, G. INRS-Océanographie Univ. du Québec à Rimouski	SSC/ASC EC	Dans le cadre d'une évaluation des répercussions de certaines modifications de l'océanographie physique de la baie James, avenant prévoyant une description générale des études et travaux qui seront nécessaires pour compléter ces recherches.	1975	4,310	(B.28)	100
Dredge, I. St. Barbe, North Nfld.	SSC/ASC DFO/MPO	Ground fish bottom trawling survey in northern Labrador, 1983.	1983	60,000	(B.126)	100
Dunbar, M.J. Marine Science Centre McGill Univ.	NRCC/CNRC NSERCC CRSNGC	Studies on plankton, other invertebrates and fish, ecosystem interaction, Gulf of Lawrence, eastern seaboard, and Arctic.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80	26,000 29,660 25,000 22,000 20,140 20,845		100/ 45

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Ecole Polytechnique	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	10,000 10,000 10,500 12,000 15,000 18,000 26,000 28,500 30,000 28,000		100/ 52
Editions Heritage (Scully, R.-G. et Plourde, M.) St-Lambert, Que.	CC/CAC	Translation Grants/Subventions à la traduction: Poutoulik chez les Inuits de l'Ungava; Nicole Rich-Plumet.	1978-79	695		100/ 11
Editions Laliberte (Clare, G.A.) Ste Foy, Que.	CC/CAC	Translation Grants/Subventions à la traduction: L'Avion à la conquête de la Côte Nord; René Bélanger.	1978-79	800		100
Ek, C.M. Dep. de Geographie Univ. de Montréal	NSERCC/ CRSNGC	Contribution à l'étude du Quaternaire du Québec par la sédimentologie en milieu karstique.	1979-80	5,000		100/ 34
Ellis, C.D. Dept. of Linguistics McGill Univ.	CC/CAC	Cree grammar.	1977-78 1978-79	4,075 1,997		100/ 11
Evans Computer Applications Limited Halifax, N.S.	SSC/ASC DFO/MPO	Atlantic east coast oceanographic atlases.	1983	9,940	(B.129)	100
Falardeau, G. Quebec, Que.	SSC/ASC EC	Constitution d'un dossier synthèse sur le complexe La Grande - Phase II.	1982	2,600	(B.111)	100
Feit, H. Private scholar	SSHRCC/ CRSHC	Cultural ecology of the Waswanipi Cree of Québec.	1979-80 1980-81	9,754 7,820		100
Feit, H.A. McGill Univ.	CC/CAC	The James Bay and Northern Quebec Agreement as a case study of native land claims in Canada.	1978-79 1979-80	18,760 20,740		100/ 43

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Fenco Newfoundland Limited St. John's, Nfld.	SSC/ASC EC	Development of an operational iceberg deterioration forecast model for the Labrador Sea.	1982	42,252	(B.116)	100/ 40
Fenco Newfoundland Limited St. John's, Nfld.	SSC/ASC EC	Iceberg deterioration field study and model validation.	1983	21,460	(B.124)	100/ 40
Fennelly, T.J. Fermeuse, Nfld.	SSC/ASC DFO/MPO	Conduct a commercial crab resource survey in five selected sub-areas of eastern Newfoundland and Labrador.	1981	126,250	(B.100)	100
Fennelly, T.J. Fermeuse, Nfld.	SSC/ASC DFO/MPO	Survey of offshore crab in northern Newfoundland and Labrador.	1983	65,000	(B.127)	100
Filion, L. Dep. de Géographie Univ. Laval	NSERCC/ CRSNGC	Dynamique holocène des systèmes éoliens du Québec.	1983-84	11,660		100/ 34
Fisheries Association of Newfoundland and Labrador Limited St. John's Nfld.	SSC/ASC DFO/MPO	Study into the viability and acceptability of a concept intended to improve the quality of landed fish in Newfoundland and Labrador.	1981 1982	175,000 280,000	(B.102) (B.115)	100
Fisheries Association of Newfoundland and Labrador Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Study into the viability and acceptability of a concept intended to improve the quality of landed fish and of processed frozen groundfish in Newfoundland and Labrador.	1983	300,000	(B.127)	100
Fisheries Products Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Offshore crab survey of northern Newfoundland and Labrador.	1983	130,000	(B.126)	100
Foggin, P.M. Dep. de Geographie Univ. de Montreal	HWC/SBSC	État de santé et facteurs de risque des populations autochtones du Nouveau-Québec.	1983-84	130,460		100/ 46
Fogo Island Co-operative Society Limited Fogo Island, Nfld.	SSC/ASC DFO/MPO	Study into the viability and acceptability of a concept intended to improve the quality of landed fish in Newfoundland and Labrador.	1982	237,930	(B.115)	100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Fogo Island Co-operative Society Limited Fogo Island, Nfld.	SSC/ASC DFO/MPO	Study into the viability and acceptability of a concept intended to improve the quality of landed fish and of processed frozen groundfish and salted cod in Newfoundland and Labrador.	1983	200,000	(B.127)	100
Ford, A. Univ. de Montréal	SSHRCC/ CRSHC	Description linguistique des structures internes de mots mushuau innu, un dialecte algonquin de la famille cri-montagnaise parlé au nord-est du Québec-Labrador.	1978-79	23,496		100
Ford, A. Univ. de Montréal	SSHRCC/ CRSHC	Description morphologique de mushuau innu.	1981-82	9,898		100/ 11
Foubert, C. Poste-de-la-Baleine, Qué.	SSC/ASC EC	Monitorage et analyses chimiques pour l'étude d'évaluation de la performance de l'usine de traitement, ainsi que de caractérisation des eaux usées, effectuée à Poste-de-la-Baleine (Québec).	1980	5,000	(B.87)	100
Fournier, J.-P. Montreal	CC/CAC	Traduction de Strangers Devour the Land, de Boyce Richardson.	1976-77	9,600		100/ 11
Fournier, M.J.A. Ottawa, Ont.	SSC/ASC DFE/MPE	Bird survey work in the James Bay Lowlands of Ontario.	1978	2,300	(B.65)	100
Foy, M. Ottawa, Ont.	SSC/ASC EC	Taxonomic studies of phytoplankton specimens and samples from James Bay.	1974	3,700	(B.20)	100
Francis, D.M. Dept. of Geological Sciences McGill Univ.	EMRC	The evolution and mineral potential of the Cape Smith fold belt.	1978-79 1979-80 1980-81 1981-82	6,000 10,000 10,000 12,000		100
Francis, D.M. Dept. of Geological Sciences McGill Univ.	EMRC	Volcanism and tectonics of the James Bay greenstone belts.	1982-83	10,000		100
Francis, D.M. Dept. of Geological Sciences McGill Univ.	EMRC	Tectonics and volcanism of the La Grande greenstone belt.	1983-84	8,000		100
Francis, D. and Morantz, T. McGill Univ.	SSHRCC/ CRSHC	Aid to Scholarly Publication/Aide à l'édition savante: Partners in Furs: A History of the Fur Trade in Eastern James Bay, 1600-1870. Montreal: McGill-Queen's Univ. Press, 1983.	1983-84	-		100/ 37

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Frandenberger, A.J. Dep. de Photogrammétrie Univ. Laval	NDD/MDN DRB/CRD	Définition microdensitométrique de trois unités naturelles de la Péninsule Labrador Ungava.	1974-75	10,000		100
Freitag, R. Dept. of Biology Lakehead Univ.	NSERCC/ CRSNGC	1) Biology and taxonomy of tiger beetles and ground beetles. 2) Benthic invertebrates of James Bay.	1982-83 1983-84	15,500 16,430		100
Frenette, M.M. Charlesbourg, Qué.	SSC/ASC EC	Inventaire de la récolte d'oiseaux migrateurs par les autochtones de la Baie James.	1982	3,900	(B.115)	100
Fryer, B.J. Dept. of Earth Sciences Memorial Univ. of Newfoundland	SSC/ASC EMRC	Study on high precision isotopic analysis of rock samples from the Michael Gabbro in Labrador for age determination by samarrum-niodynium and rubidium-strontium methods.	1983	3,000	(B.118)	100
Gagnon, R. Dep. des Sciences pures Univ. du Quebec a Chicoutimi	EC	Paléoclimatologie : Oxygène - 18 et déplacements holocènes de la limite des forêts, Canada N.-E.	1980-81	4,000		100/ 28
Gagnon, R. Dep. des Sciences fondamentales Univ. du Québec a Chicoutimi	NSERCC/ CRSNGC	Déplacements de la limite des forêts de mélèze (Larix laricina (DuRoi) K. Koch) et paléoclimatologie holocène du Québec nordique.	1983-84	7,420		100/ 28
Gangloff, P., Richard, P.J.H., et De Boutray, B. Dép. de Géographie Univ. de Montreal, et Univ. du Quebec a Montreal	NSERCC/ CRSNGC	Morphosculpture du socle dans l'Ungava.	1978-79 1979-80 1980-81	19,300 21,000 8,000		100
Gardiner, R. Flower's Cove, Nfld.	SSC/ASC DFO/MPO	Experimental scallop survey along the northern straits and Eastern Labrador coastline.	1980	36,000	(B.88)	100/ 41
Garrett, G. Dalhousie Univ.	SSC/ASC DFO/MPO	Research study on iceberg trajectories/tidal models.	1983	32,389	(B.127)	100/ 40

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Gaskill, H.S. Dept. of Mathematics and Statistics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Sea ice and iceberg motion.	1982-83 1983-84	3,000 3,000		100/ 40
Gauthier, G. Dep. de Géographie Univ. du Québec à Quebec	NSERCC/ CRSNGC	Groupe de recherche en sciences géologiques du pétrole.	1978-79	40,000		100
Genge, C. Port au Choix, Nfld.	SSC/ASC DFO/MPO	Ground fish bottom trawling survey in northern Labrador, 1983.	1983	70,350	(B.126)	100
Geomarine Associates Limited Halifax, N.S.	SSC/ASC EMRC	Professional support of a hydrographic/ geophysical survey in the Labrador Sea including data collection and interpretation.	1974	4,875	(B.17)	100
Geomarine Associates Limited Halifax, N.S.	SSC/ASC EC	Obtain base line data for an assessment of possible environmental damage at James Bay, due to hydro-power development.	1975	10,100	(B.27)	100
Georesources Halifax, N.S.	SSC/ASC EMRC	Compilation of a data base for the morphology and occurrence of ice scours on the Canadian continental shelves.	1980	10,000	(B.89)	100/ 40
Gerin-Lajoie, D. Montreal	CC/CAC	Recherche sur les Autochtones du Québec.	1981-82	9,273		100
Gilbert, R. Dept. of Geography Queen's Univ. at Kingston	NSERCC/ CRSNGC	Nearshore marine environments of eastern Baffin Island & Labrador.	1981-82	3,000		100/ 45
Gittins, J. Dept. of Geology Univ. of Toronto	EMRC	The petrology of agpaitic alkalic rock complexes in the upper Red River - Wine River region of Labrador.	1974-75	5,000		100
Gittins, J. Dept. of Geology Univ. of Toronto	EMRC	Metamorphic petrology of high grade metamorphic rocks in the vicinity of Wilson Lake, Labrador.	1978-79	1,000		100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Godin, G. Winchester, Ont.	SSC/ASC DFO/MPO	Review of the seasonal irregularities in the semidiurnal tide of James Bay and southern Hudson Bay.	1982	10,000	(B.117)	100
Goodfellow, R. North West River, Labrador	CC/CAC	Experimentation on use of caribou hair as fibre for clothing.	1983-84	2,800		100/ 11
Gould, C. Flower's Cove, Nfld.	SSC/ASC DFO/MPO	Groundfish trawling experiments off Northeastern Newfoundland and Eastern Labrador.	1980	24,000	(B.92)	100
Grand Council of the Crees (of Quebec) Montreal, Que.	SSC/ASC EC	Screening program for mercury in fish during the summer of 1976, at Waswanipi, Nemiscau and Mistassini regions of the James Bay territory.	1976	166,000	(B.42)	100
Gray, J.T. Dep. de Geographie Univ. de Montreal	NRCC/CNRC	Morphologie glaciaire et periglaciaire et distribution du pergelisol sur la Cote ouest de la Baie d'Ungava.	1976-77	4,000		100
Gray, J.T. Dep. de Geographie Univ. de Montreal	EMRC	Le pergelisol et les masses de glace dans le sol dans le geosynclinal du Labrador, sur la cote ouest da la Baie d'Ungava.	1977-78	4,000		100/ 57
Gray, J.T. Dep. de Geographie Univ. de Montreal	NRCC/CNRC	Projet 1) Regime thermique dans le pergelisol et le mollisol sur la Cote sud-ouest de la Baie d'Ungava Projet 2) Le regime thermique des sols sur les sommets de Mont Jacques Cartier et Mont Albert, Gaspesie.	1977-78	4,150		100/ 57
Gray, J.T. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Permafrost and active layer studies applied to two critical areas of Northern Quebec and Gaspesie.	1978-79	3,500		100/ 57
Gray, J.T. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Permafrost and active layer studies in sub-Arctic and mountain environments of southern and central Quebec.	1979-80	5,000		100/ 57
Gray, J.T. Dep. de Geographie Univ. de Montreal	EMRC	Permafrost studies in the forest tundra ecotone in the Labrador trough on the S.W. coast of Ungava Bay.	1978-79	4,500		100/ 57
Gray, J.T. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Studies on perennially and seasonally frozen ground in Nouveau-Quebec and Gaspesie.	1980-81	11,500		100/ 57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Gray, J.T. Dep. de Geographie Univ. de Montreal	EMRC	Geothermal modelling of deep drill hole data aimed at reconstruction of late Quaternary environments in northern Québec and Gaspésie.	1981-82 1982-83 1983-84	6,500 8,000 5,700		100/ 57
Gray, J.T. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Permafrost studies and geothermal modelling in Northern Quebec and Gaspésie.	1981-82 1982-83 1983-84	15,000 18,000 19,080		100/ 57
Gray, J.T. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Permafrost and shore process studies in Northern Quebec.	1982-83	5,000		100/ 57
Gray, J.T. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Colour printer.	1982-83	24,900		100/ 57
Gray, J.T. Dep. de Geographie Univ. de Montreal	SSC/ASC EMRC	Extraction et compilation des données de température et de precipitations nivales accessibles dans la péninsule d'Ungava pour les besoins d'une simulation geothermique des paléoclimats du Quaternaire.	1983	3,620	(B.121)	100/ 5
Gray, J.T. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Permafrost and active layer studies in Northern Quebec.	1983-84	4,240		100/ 57
Greendale, R. Montreal, Que.	SSC/ASC EC	A study of anadromous and coastal fish stocks in James Bay.	1974	7,000	(B.19)	100
Greendale, R. Ste-Genevieve, Que.	SSC/ASC EC	Study of anadromous and coastal fish stocks which might be affected by the James Bay hydroelectric project.	1975	5,500	(B.33)	100
Guha, J. Dep. des Sciences appliquées Univ. du Quebec a Chicoutimi	NRCC/CNRC	1) Mineralisation et problèmes d'exploitation de gisements dans la region de Chibougamau. 2) Etude de la mineralisation Pb-Zn dans le bassin de Mistassini.	1974-75 1975-76 1976-77	5,900 6,730 6,903		100

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Harvest House (Barr, W.) Montreal, Que.	CC/CAC	Translation Grants/Subventions à la traduction: Nordicite canadienne; Louis-Edmond Hamelin.	1978-79	7,500		100/ 32
Head, J.L. Notre Dame Bay, Nfld.	SSC/ASC DFO/MPO	Participation in and reporting on an offshore crab survey in Newfoundland and Labrador waters.	1980	7,063	(B.90)	100
Heidenreich, B.A. Nain, Nfld.	CC/CAC	Book of Labrador Inuit legends illustrated by Inuit artists.	1982-83	9,000		100/ 11
Helbig, J.A. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Labrador current and Grand Banks circulation study.	1980-81 1981-82	7,500 8,500		100
Hendershot, W.H. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Genesis and classification of cryosols.	1982-83 1983-84	10,000 10,600		100/ 57
Herout, R. Centre d'Etudes nordiques Univ. Laval	SSC/ASC DFE/MPE	Redaction de monographies sur les communautés de Mistassini et Fort Rupert.	1978	38,140	(B.61)	100
Hesse, R. Dept. of Geological Sciences McGill Univ.	EMRC	Labrador Sea sediments.	1975-76 1976-77 1977-78	3,000 5,000 5,500		100/ 34
Hesse, R. Dept. of Geological Sciences McGill Univ.	SSC/ASC EMRC	Analysis of near surface sediments into Karlsefini Trough, Saglek Bank.	1978	4,000	(B.69)	100
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec à Montreal	NRCC/CNRC	Établissement d'une courbe des variations eustatiques, pour l'Est du Canada de 8 000 ans (BP) à aujourd'hui.	1975-76 1976-77	3,805 2,000		100/ 34

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NRCC/CNRC	Exemples d'applications des paléotempératures isotopiques: le Lac de Deschaillons et la Mer de Tyrrell.	1977-78	4,650		100/ 34
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NSERCC/ CRSNGC	Applications de la géochimie isotopique à l'étude de paléoenvironnements quaternaires.	1978-79 1979-80	7,510 11,000		100/ 34
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NSERCC/ CRSNGC	Spectrometre a scintillation liquide.	1978-79	26,400		100/ 34
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NSERCC/ CRSNGC	Applications de la géochimie isotopique à l'étude des paléoenvironnements quaternaires dans l'est et le nord du Canada.	1980-81	14,800		100/ 34
Hillaire-Marcel, C. Dep. des Sciences de la terre Univ. du Quebec a Montreal	NSERCC/ CRSNGC	Paléoenvironnements isotopiques continentaux et paléoclimats.	1981-82 1982-83 1983-84	14,800 25,410 26,935		100/ 34
Hillaire-Marcel, C. et al Dep. des Sciences de la Terre Univ. du Quebec à Montreal et al.	NSERCC/ CRSNGC	Spectometre de masse a triple collecteur pour analyses isotopiques.	1982-83	175,588		100/ 34
Hills, T.L. McGill Univ.	SSHRCC/ CRSHC	Land claims and space needs of native peoples.	1978-79	7,530		100/ 43
Hiscock, N.C. St. John's, Nfld.	SSC/ASC DFO/MPO	Direct the crab resource survey off northern Newfoundland and Labrador.	1983	10,003	(B.126)	100

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Hiscott, R.N. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	1) Orogenic flysch sandstone, Ordovician, Appalachians 2) Late Precambrian and Early Paleozoic clastic sedimentology, Newfoundland and Labrador.	1979-80	9,000		100
Hiscott, R.N. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	1) Orogenic flysch sandstones, Ordovician, Appalachians 2) Late Precambrian and early Paleozoic sedimentary, avalon Zone and Labrador.	1980-81	10,500		100
Hode Keyser, J. Dép. de Génie civil École Polytechnique	NSERCC/ CRSNGC	Conception et entretien des routes du nord.	1983-84	4,770		100/ 67
Holler, A. Head Chezzetcook, N.S.	SSC/ASC DFE/MPE	Analysis of wave heights in various areas of the southern Labrador sea and western Atlantic.	1979	1,200	(B.70)	100
Hooper, R.G. Dept. of Biology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Mechanism of benthic algal distribution in Labrador.	1980-81 1981-82 1982-83	8,000 8,800 10,164		100
House, A.M. Fac. of Medicine Memorial Univ. of Newfoundland	SSC/ASC DC/MC	Feasibility study of aggregating potential ANIK-B pilot project interests in Eastern Canada in the areas of health, education, government administration and economic services.	1978	12,000	(B.59)	100/ 7
House, A.M. Fac. of Medicine Memorial Univ. of Newfoundland	HWC/SBSC	Home centred videotape counselling programmes for parents with deaf children (0-5 years of age) in rural Newfoundland and Labrador.	1977-78 1978-79	35,112 21,765		100
House, J.D. Dept. of Sociology Memorial Univ. of Newfoundland	EMRC	Local preparedness for the attitudes toward offshore oil development in coastal Labrador.	1977-78	3,000		100
Hunter, Z. Nain, Nfld.	CC/CAC	Books on Labrador Inuit lifeskills.	1981-82	3,821		100/ 11
Hynes, A.J. Dept. of Geological Sciences McGill Univ.	NRCC/CNRC	Nature of ordovician volcanic belt in northern Maine and Quebec.	1975-76	3,500		100

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Hynes, A.J. Dept. of Geological Sciences McGill Univ.	NRCC/CNRC	1) Petrological study of rift-related volcanic rocks of southeastern Quebec. 2) Structural/metamorphic studies in the Churchill Province E of the Labrador Trough, New Quebec.	1976-77	5,000		100
Hynes, A.J. Dept. of Geological Sciences McGill Univ.	NSERCC/ CRSNGC	Precambrian tectonic studies: Capricorn Orogen and James Bay.	1982-83 1983-84	15,000 15,900		100
Hynes, A.J. and Francis, D.M. Dept. of Geological Sciences McGill Univ.	NSERCC/ CRSNGC	1) Geotraverse of the Cape Smith fold belt 2) Ultramafic magma project 3) Petrological study of southeastern Quebec.	1977-78 1978-79 1979-80	17,500 18,550 19,199		100
Hynes, A.J. and Francis, D.M. Dept. of Geological Sciences McGill Univ.	NSERCC/ CRSNGC	Geologic evolution and mining potential of the Cape Smith fold belt, Northern Quebec.	1980-81 1981-82	20,750 13,000		100
Ice Engineering Limited St. John's Nfld.	SSC/ASC DFO/MPO	Measure underwater size and shape of icebergs in the Strait of Belle Isle.	1983	26,500	(B.124)	100
Idler, D.R. Dept. of Biochemistry Memorial Univ. of Newfoundland	INAC/AINC	Biological and oceanographic study of the Labrador Sea Marine Region.	1977-78	15,000		100/ 53
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Effect of environmental changes on estuarine circulation and mixing.	1979-80 1980-81 1981-82 1982-83 1983-84	11,000 12,078 13,286 16,000 16,960		100/ 53
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Self recording current meters (six).	1981-82	44,998		100/ 41

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Ingram, R.G. Institute of Oceanography McGill Univ.	SSC/ASC DFO/MPO	Collection of data on the Great Whale River winter oceanography project - March to May 1982.	1982	15,000	(B.116)	100
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Conducting - temperature - depth profiling instrument.	1983-84	31,803		100/ 53
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Logistic support for winter oceanographic work in Hudson Bay.	1983-84	7,420		100/ 53
Ingram, R.G. Institute of Oceanography McGill Univ.	NSERCC/ CRSNGC	Self recording tide gauge.	1983-84	8,733		100/ 41
Ingram, R.G., Legendre, L. and Chu, V.H. Institute of Oceanography McGill Univ. and Univ. Laval	NSERCC/ CRSNGC	Entrainment, mixing processes and phytoplankton production in an under-ice Hudson Bay plume.	1981-82 1982-83 1983-84	68,700 75,892 40,996		100/ 41
Jackson, L. Happy Valley, Nfld.	CC/CAC	Documentation of material on Labrador.	1981-82	1,600		100
Jackson, L. Happy Valley, Nfld.	CC/CAC	Continuation of research into Labrador artifacts in collection at Bowdoin College, Maine.	1983-84	1,784		100
Johnson, G.J. Dept. of Ophthalmology Memorial Univ. of Newfoundland	CNIB/INCA	Studies on an eye condition peculiar to Labrador.	1975-76	2,535		100
Johnson, G.J. Dept. of Ophthalmology Memorial Univ. of Newfoundland	CNIB/INCA	An epidemiological survey of causes of blindness and visual disability in Newfoundland and Labrador.	1979-80	11,000		100/ 46

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Johnson, M. Matthew, D. and Tennent, D.	HSCF	Provincial Perinatal Program for Newfoundland and Labrador.	1983-84	37,454		100
Jones, H.G. INRS - Énergie Univ. du Québec à Quebec	NRCC/CNRC	Limnologie chimique des eaux du Bouclier Canadien (Aspects hivernaux).	1976-77	6,000		100
Jones, H.G. INRS - Eau Univ. du Québec à Québec	NSERCC/ CRSNGC	Snow pack chemistry and melt water quality.	1983-84	10,600		100
Kakonge, S. Toronto, Ont.	SSC/ASC DFE/MPE	Literature review and provision of annotated species list of James Bay invertebrates.	1978	2,760	(B.64)	100
Kauki, M. Koartak, Que.	SSC/ASC CD/MC	Collaboration in the operation and evaluation of a trail and remote camp radio system for use by Inuit people at Koartak, Que.	1979	2,050	(B.81)	100
Keelar. M.W. Koartak, Que.	SSC/ASC EC	Provision of weather observing and reporting services and the maintenance of AES's (Atmospheric Environment Service) weather station located at Koartak, Quebec.	1981	55,020	(B.96)	100
Keliher, T.E. Dept. of Physics Memorial Univ. of Newfoundland	SSC/ASC EC	Software modification and development related to numerical sea ice models for the Labrador Sea.	1983	12,351	(B.125)	100/ 58
Kemp, B. McGill Univ.	INAC/AINC	To plan and organize a workshop on northern population problems.	1976-77	2,500		100/ 50
Kempt, M.B. Montréal, Que.	SSC/ASC DFE/MPE	Etude des liens entre les connaissances necessaires à la gestion du régime Chasse, Pêche et Trappage de la Convention de la Baie James et du Nord Québécois et l'etat actuel des connaissances et données disponibles.	1979	2,000	(B.73)	100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Kershaw, K.A., Rouse, W.R. and Woo, M.K. Dept. of Physics Univ. of Saskatchewan and McMaster Univ.	NSERCC/ CRSNGC	The potential impacts of hydroelectric development on the hydroclimate and coastal ecology of James Bay.	1983-84	139,000		100/ 38
Khan, R.A. Marine Sciences Research Laboratory Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Studies on the parasite protozoa of marine fish off the coasts of Newfoundland and Labrador	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82	5,000 5,705 5,850 12,000 12,720 13,165 18,165 19,982		100
Khan, R.A. Dept. of Biology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Inverted camera microscope.	1978-79	13,500		100
Kidd, B.T. Ile-Perrot, Que.	SSC/ASC EC	Studies of anadromous and freshwater fishes in the James Bay Area.	1974	5,750	(B.21)	100
Kidd, B.T. Oshawa, Ont.	SSC/ASC EC	Study of anadromous and coastal fish stocks which might be affected by the James Bay Hydro Electric Project.	1975	8,400	(B.31)	100
Kinlough, L. Longueuil, Qué.	SSC/ASC EC	Etude d'echantillons zoobenthiques de la baie James.	1974	5,250	(B.18)	100
Koslow, J.A. Dept. of Oceanography Dalhousie Univ.	DFO/MPO	Atmospheric pressure forcing, hydrography, and fishery recruitment in the Northwest Atlantic.	1981-82	8,000		100
Kupp J. Dept. of History Univ. of Victoria	CC/CAC	Dutch influence on the Canadian economy during the 17th century and Dutch presence in Labrador during 17th and 18th centuries.	1974-75	1,046		100
Kupp, J. Dept. of History Univ. of Victoria	CC/CAC	Dutch documents relating to the early North American fur trade and cod fisheries and Labrador and the Strait of Davis.	1974-75 1975-76	2,020 3,500		100/ 37

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Kupp, J. Dept. of History Univ. of Victoria	CC/CAC	Influence of the Dutch economy on the fur trade and cod fisheries of Canada, 17th century.	1976-77	904		100
Labonté, R. Dép. de Génie civil École Polytechnique	EC	Conceptualization of and experimentation with new methods of treating waste water and solid wastes in northern climates.	1974-75	12,000		100/ 70
Labonté, R. Dép. de Génie civil Ecole Polytechnique	NRCC/CNRC	Traitements chimiques pour l'enlèvement sous des climats froids des phosphates et des nitrates des eaux usees.	1974-75	5,000		100/ 70
Labrador Resources Advisory Council Happy Valley, Nfld.	SSC/ASC EMRC	Study on seasonal location and utilization of marine and other natural resources to determine possible environmental effects of oil and gas development: coastal Labrador.	1978 1980 1981	25,000 25,000 26,500	(B.66) (B.83) (B.95)	100
Labrecque, M.-F. et McNulty, G. Univ. Laval	SSHRCC/ CRSHC	Les femmes amérindiennes au Québec: les cas Attikamek et Montagnais.	1982-83	24,937		100
Lajoie, J. Dep. de Géologie Univ. de Montréal	NSERCC/ CRSNGC	1) Sédimentologie de séquences archéennes de la region de Rouyn-Noranda 2) Sédimentologie de séquences aphébiennes de la région des monts Otish 3) Études sédimentologiques de roches volcanoclastiques.	1982-83 1983-84	27,500 29,150		100
Lamothe, A. Montréal, Qué.	CC/CAC	Trois films intitulés Mistashipu, Pakuashipu et Teshulakent, sur les Indiens montagnais du Quebec.	1974-75	15,000		100
Lauriol, B.M.E. Dep. de Geographie Univ. d'Ottawa	NSERCC/ CRSNGC	La couverture neigeuse de l'Ungava entre 1967 et 1980.	1981-82 1982-83	8,000 9,000		100/ 62
Lauriol, B.M.E. Dép. de Géographie Univ. d'Ottawa	NSERCC/ CRSNGC	La couverture neigeuse de l'Ungava et des régions arctiques au moyen de la télédétection et des photoaériennes.	1983-84	9,540		100/ 62
Lechowicz, M.J. Dept. of Biology McGill Univ.	SSC/ASC EC	Study the effects of acid precipitation on productivity of the principal caribou forage lichens.	1981	36,503	(B.101)	100/ 1

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Lechowicz, M.J. Dept. of Biology McGill Univ.	NSERCC/ CRSNGC	Effects of acid precipitation on the productivity of caribou lichens.	1980-81 1981-82 1982-83	22,470 30,524 34,223		100/ 1
Lechowicz, M.J. Dept. of Biology McGill Univ.	EC	Solute leaching from lichens by acid precipitation.	1981-82	3,000		100/ 1
Leduc, G. Dép. de Biologie Univ. Concordia	SSC/ASC INAC/AINC	Étude de la toxicité de l'arsenic et du cyanure en rapport avec le travail dans les mines du Nord.	1975	35,555	(B.26)	100/ 46
Lee, T.E. Dép. d'Archéologie Univ. Laval	CC/CAC	Investigation of probable Norse remains in Ungava.	1974-75	9,150		100/ 3
Lefebvre, G. Dép. de Génie civil Univ. de Sherbrooke	NRCC/CNRC	Étude des argiles de la Baie James.	1974-75 1975-76	6,600 7,315		100
Légaré, J. Dép. de Démographie Univ. de Montréal	INAC/AINC	Northern demography and population studies.	1978-79	15,795		100/ 12
Légaré, J. Dép. de Démographie Univ. de Montréal	INAC/AINC	Participation of native people at the Northern Demography Conference.	1979-80	1,000		100/ 12
Légaré, J. Dép. de Démographie Univ. de Montréal	OMAC/AOMC	Secrétariat du Comité de recherche sur les populations nordiques.	1979-80 1980-81	14,000 8,729		100/ 12
Légaré, J. Dép. de Démographie Univ. de Montréal	INAC/AINC	A study of Northern demography.	1981-82	24,800		100/ 12
Le Groupe Dryade Limitée Québec, Que.	SSC/ASC EC	Evaluation des études d'avant-projet du complexe Grande-Baleine.	1982	5,000	(B.109)	100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Le Groupe Dryade Limitée Québec, Qué.	SSC/ASC EC	Révision des études d'acces au complexe Grande Baleine.	1982	5,000	(B.111)	100
Le Groupe Dryade Limitée Québec, Qué.	SSC/ASC EC	Évaluation de la biomasse forestière sur le territoire forestier non-inventorie de la province de Québec.	1983	125,000	(B.127)	100
Lejeune, R. Ste-Foy, Qué.	SSC/ASC EC	Service en biologie nordique.	1979 1980	2,000 2,000	(B.75) (B.84)	100
Lessard, M. Univ. de Montréal	SSHRCC/ CRSHC	Évaluation de la qualite de l'environnement a Chisasibi.	1983-84	24,472		100
LGL Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Investigate the seasonally of inshore codfish abundance on the Labrador coast in relation to the biological and oceanographic parameters.	1981	149,984	(B.100)	100
Linklater, C. Nat. Indian Brotherhood Ottawa	HWC/SBSC	Sediment Survey for Mercury Content in Rivers and Lakes of N.W. Quebec in Local Areas of Indian Reserves in that area.	1976-77 1977-78	11,454 3,050		100/ 47
Llamas, J. Dép. de Génie civil Univ. Laval	NSERCC/ CRSNGC	Hydrologie des bassins nordiques.	1979-80 1980-81 1981-82 1982-83 1983-84	12,500 13,725 15,098 18,500 19,610		100/ 39
Lobban, M.C. Dept. of Environmental Physiology Memorial Univ. of Newfoundland	HWC/SBSC	An investigation of circadian rhythms of renal excretion in Northern peoples in the Labrador	1981-82 1982-83	10,358 15,974		100/ 46
Long, B. Dép. d'Océanologie Univ. du Quebec à Rimouski	EMRC	Conséquences sédimentologiques et géomorphologiques des aménagements hydro-électriques sur les estuaires des rivières de la Basse Cote Nord, Golfe du Saint-Laurent.	1980-81 1981-82 1982-83	5,000 8,200 14,000		100

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Long, B. INRS-Oceanologie Univ. du Québec a Québec	NSERCC/ CRSNGC	Évolution sédimentologique et géomorphologique des estuaires de la Côte nord du Golfe du Saint-Laurent.	1980-81 1981-82 1982-83 1983-84	7,500 7,500 8,500 9,540		100
Mable, H. Trinity Bay, Nfld.	SSC/ASC DFO/MPO	Offshore commercial crab survey off northeastern Newfoundland and eastern Labrador.	1980	120,880	(B.88)	100
MacLaren Atlantic Limited Dartmouth, N.S.	SSC/ASC DFE/MPE	Assessment of shrimp fishery potential in Davis Strait, Hudson Strait, Ungava Bay and Northern Labrador Sea.	1978	244,321	(B.62)	100/ 41
MacLaren Plansearch Limited St. John's, Nfld.	SSC/ASC EC	Study of factors controlling iceberg drift and design of an iceberg drift prediction system.	1982	49,198	(B.106)	100/ 40
Magnin, E.N. Dep. de Biologie Univ. de Montréal	NRCC/CNRC	Recherches limnologiques et ichtyologiques sur les eaux douces du Québec.	1974-75 1975-76	15,000 17,100		100
Magnin, E.N. Dep. des Sciences biologiques Univ. de Montréal	NRCC/CNRC	Dynamique des populations des poissons des bassins hydrographiques de la baie James.	1976-77	17,000		100
Magnin, E.N. Dep. des Sciences biologiques Univ. de Montréal	NRCC/NRCC	Synthese des recherches effectuees sur le lac Saint-Louis, les lacs de la station de Saint-Hippolyte et les bassins hydrographiques de la baie James.	1977-78	17,000		100
Magnin, E.N. Dep. des Sciences biologiques Univ. de Montréal	NSERCC/ CRSNGC	Recherches limnologiques sur le lac Saint-Louis, les lacs des Laurentides et les bassins hydrographiques de la Baie James.	1978-79 1979-80 1980-81	17,000 17,595 19,319		100
Magnin, E.N. Dep. des Sciences biologiques Univ. de Montréal	NSERCC/ CRSNGC	Recherches limnologiques dans les Laurentides et sur le territoire de la Baie James.	1981-82	12,000		100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Magnin, E. Dep. des Sciences biologiques Univ. de Montréal	NSERCC/ CRSNGC	Ecologie des poissons dans les Laurentides et sur le territoire de la Baie James.	1982-83 1983-84	6,360 6,360		100
Maire, A.R. Dep. de Chimie-biologie Univ. du Québec à Trois-Rivières	NRCC/CNRC NSERCC/ CRSNGC	Synecologie des zones humides temporaires favorables au developpement des populations larvaires de moustiques (Dipteres, Culicides).	1977-78 1978-79 1979-80	9,000 9,540 9,874		100/ 74
Maire, A.R. Dep. de Chimie - biologie Univ. du Quebec a Trois-Rivieres	NSERCC/ CRSNGC	Synecologie des zones humides a larves de moustiques.	1980-81 1981-82 1982-83	10,000 11,000 12,705		100/ 74
Maire, A.R. Dep. de Chimie - biologie Univ. du Quebec a Trois-Rivieres	NSERCC/ CRSNGC	Selectivite des femelles de moustiques pour leurs sites naturels d'oviposition.	1983-84	23,320		100/ 74
Makivik Corporation Fort Chimo, Que.	SSC/ASC DFO/MPO	Studies on the distribution, population size, stock identity and Inuit use of the white whales in Northern Quebec.	1980	215,882	(B.87)	100/ 51
Makivik Corporation Montreal, Que.	SSC/ASC EC	Research on the location, ecology and nesting population of eider ducks in the Inuit Territory of Northern Quebec.	1980	48,769	(B.88)	100
Makivik Corporation Montreal, Que.	SSC/ASC EC	Study of Inuit land use patterns in new Quebec.	1981 1981	13,343 8,770	(B.96) (B.100)	100/ 44
Malone, A.S. St. John's, Nfld.	CC/CAC	Creation for touring of a three-man circus project in Newfoundland and Labrador in the summer of 1982.	1982-83	11,800		100
Malpas, J.G. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	1) Investigation of ophiolitic and related rocks and comparison to oceanic crust. 2) Petrogenesis of Labrador Kimberlites.	1980-81 1981-82 1982-83	20,750 22,825 26,303		100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Malpas, J.G. Dept. of Geology Memorial Univ. of Newfoundland	NRCC/CNRC	1) A petrochemical and field study of West and Central Newfoundland ophiolites with particular reference to spinel petrogenesis 2) Petrochemical study of kimberlitic and alkaline intrusions Saglek, Labrador 3) Investigation of hydrothermal and magmatic processes in ophiolites and on ocean ridges.	1977-78	9,350		100
Manning, T.H. Merrickville, Ont.	SSC/ASC EC	Plot and transect studies of breeding birds in James Bay.	1975	3,400	(B.28)	100
Marchessaux, D. Marseille, France	SSC/ASC DFO/MPO	Etude de mammiferes de l'est ou du nord du Canada.	1981	24,990	(B.98)	100/ 26
Marinav Corporation Ottawa, Ont.	SSC/ASC DFE/MPE	Support services to provide hyperbolic positioning coverage over the southeast section of Hudson Bay.	1978	110,957	(B.59)	100
Maritime Offshore Services Bedford, N.S.	SSC/ASC DFO/MPO	Preparation of a technical report on hindcasting of iceberg tracks.	1983	10,800	(B.129)	100/ 40
Marshall Macklin Monaghan Limited Don Mills, Ont.	SSC/ASC EMRC	Survey and evaluation of the gravity field in the littoral zone of Southern Hudson Bay.	1980	161,387	(B.90)	100
Marshall Macklin Monaghan Limited Don Mills, Ont.	SSC/ASC EMRC	Geochemical lake sediment and water sampling survey, Labrador, 1982 and 1983.	1982	614,463	(B.113)	100
Martec Limited Halifax, N.S.	SSC/ASC EC	Iceberg data project.	1982	15,000	(B.108)	100/ 40
Martec Limited Halifax, N.S.	SSC/ASC DFO/MPO	Modelling study of iceberg dynamics.	1982	20,975	(B.113)	100/ 40
Martec Limited Halifax, N.S.	SSC/ASC DFO/MPO	Statistical description of the variability in ice advance along the Labrador coast in response to meteorological and oceanographic forcing.	1982	19,762	(B.117)	100/ 40
Martec Limited Halifax, N.S.	SSC/ASC EC	Spectral analysis of iceberg drift data and its application to iceberg drift modelling.	1983	13,337	(B.129)	100/ 40

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Martignole, J. Dep. de Geologie Univ. de Montreal	NSERCC/ CRSNGC	Recherches petrologiques et structurales sur l'évolution de la province de Grenville	1983-84	13,780		100
Martini, I.P. and Protz, R. Dept. of Land Resource Science Univ. of Guelph	SSC/ASC DFE/MPE EC	Geomorphological, sedimentological and pedological studies in the coastal zone of the Hudson Bay lowlands.	1978 1979 1980	17,000 18,001 12,000	(B.65) (B.76) (B.86)	100
Martin, I.P., Protz, R. and Salvadori, A. Dept. of Land Resource Science Univ. of Guelph	SSC/ASC EC	Geomorphological, sedimentological and pedological studies in the Hudson Bay lowlands, data analysis and data file creation.	1981	19,500	(B.105)	100
Martin, P. L. Dep. de Linguistique Univ. Laval	SSHRCC/ RSHC	Le singulier et le pluriel de l'inanime en cri de l'est (Fort George): etude phonetique et phonologique	1978-79	2,734		100
Martin, P.-L. Dep. de Linguistique Univ. de Laval	CC/CAC	Phonologie, morphologie et syntaxe du montagnais de la basse Côte Nord (Québec).	1975-76	5,000		100
Martini, I.P. Dept. of Land Resource Science Univ. of Guelph	SSC/ASC DFE/MPE	Geomorphological and pedological studies in the coastal zone of the Hudson Bay lowlands.	1977	15,084	(B.52)	100
Maurice, Y.T. Dep. de Geologie Univ. Laval	NRCC/CNRC	Evaluation des dépôts quaternaires pour la prospection géochimique dans la region de la Baie James.	1974-75	3,675		100
McCarthy, J. Halifax, N.S.	SSC/ASC EC	Study of the Labrador current.	1981	400	(B.98)	100/ 53
McCloskey, B. Fac. of Agriculture McGill Univ.	SSC/ASC INAC/AINC	Research, design, development, fabrication and evaluation of prototype housing units for Quebec Indian communities.	1975	119,541	(B.29)	100
McElhanney Surveying and Engineering Limited Vancouver, B.C.	SSC/ASC EMRC	Survey and evaluation of the gravity field east of the Ottawa Islands in Hudson Bay.	1978	199,992	(B.68)	100/ 33

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
McGill Univ. Montreal, Que.	SSC/ASC DFO/MPO	Research of distribution and abundance of Arctic char in Ikarut River, Hebron Fiord and Labrador.	1983	11,459	(B.125)	100
McGill Univ.	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	27,500		100/ 52
			1975-76	30,000		
			1976-77	31,000		
			1977-78	35,000		
			1978-79	35,000		
			1979-80	35,000		
			1980-81	37,500		
			1981-82	41,000		
			1982-83	46,500		
			1983-84	50,500		
McGuire, B. Halifax, N.S.	SSC/ASC DFE/MPE	Preparation of an environmental atlas of Coastal Labrador.	1977	19,965	(B.52)	100
McIlveen, D. Greely, Ont.	SSC/ASC EC	Collection of baseline biophysical data for the winter wildlife harvest at Fort George, James Bay.	1975	7,975	(B.23)	100
McNally, M. Saint John, N.B.	SSC/ASC EMRC	Preparation of reports, plots and illustrations of silicious arenaceous foraminifer assemblages at the Cretaceous-Tertiary transition in the Labrador Shelf and Scotian Shelf.	1977	2,999	(B.47)	100
McNamara, W.C. and House, A.W. Educational Television Centre and Fac. of Medicine Memorial Univ. of Newfoundland	SSC/ASC CD/MC	Demonstration on the feasibility of using an interactive satellite system for the provision of continuing medical education to practising physicians in remote areas of Newfoundland and Labrador.	1976	124,408	(B.45)	100/ 7
McSween, S. Ste-Anne-de-Bellevue, Que.	SSC/ASC EC	Taxonomic studies of zooplankton samples from James Bay.	1975	4,600	(B.32)	100
Meerovitch, E. Dept. of Parasitology McGill Univ.	HWC/SBSC	Native health in Northern Quebec in relation to resource harvesting and parasitic zoonoses.	1983-84	78,249		100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Memorial Univ. of Newfoundland	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	15,000 17,500 17,500 25,000 26,000 26,000 30,000 30,000 28,000 34,000		100/ 52
Mercer, W.E. St. John's, Nfld.	CC/CAC	To collect and prepare for publication information on the major expeditions into the Labrador Peninsula.	1975-76	3,500		100
Michon, F. St. John's, Nfld.	SSC/ASC DFO/MPO	Produce a comprehensive report on all experimental work at the Northwest Atlantic Fisheries during the period of November 1980 to January 1983.	1983	3,000	(B.118)	100
Miller, G.H. Amino Acid Laboratory Univ. of Colorado Boulder, Colorado, USA	SSC/ASC EMRC	Amino genesis analyses to determine the overall quaternary chronology on the Labrador Shelf.	1981	7,140	(B.96)	100
Milne, W.J. Fac. of Engineering and Applied Science Memorial Univ. of Newfoundland	SSC/ASC DFO/MPO	Energy conservation guidance for the Newfoundland and Labrador inshore fishery.	1982	15,335	(B.107)	100
Moore, T.R. Dept. of Geography McGill Univ.	NRCC/CNRC	1) A study of the soils of subarctic and arctic zones of Quebec/Labrador and Baffin Island. 2) The accumulation and decomposition of soil organic matter in a Southern Quebec forest.	1974-75	3,775		100/ 57
Moore, T.R. Dept. of Geography McGill Univ.	NSERCC/ CRSNGC	Soil forming processes and opal phytoliths in arctic and subarctic soils.	1979-80 1980-81	6,200 8,000		100/ 57

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Moore, T.R. Dept. of Geography McGill Univ.	NSERCC/ CRSNGC	Soil forming processes, opal phytoliths and archaeological features in boreal, subarctic and arctic soils.	1981-82	11,000		100/ 57
Moore, T.R. Dept. of Geography McGill Univ.	EC	The impact of acidic precipitation deposition on the subarctic soils of eastern Canada.	1981-82 1982-83	3,000 5,000		100/ 1
Moore, T.R. Dept. of Geography McGill Univ.	SSC/ASC EMRC	Preparation of a permafrost data file in computer-retrievable form and to assess the current status of permafrost knowledge in the Schefferville region of Quebec.	1982	33,506	(B.114)	100/ 57
Moore, T.R. Dept. of Geography McGill Univ.	NSERCC/ CRSNGC	The biogeochemistry of northern peatlands.	1982-83 1983-84	23,000 22,260		100/ 69
Morin, R.B. Pointe-Claire, Que.	SSC/ASC EC	Étude des poissons anadromes et des poissons d'eau douce de la region de la baie James.	1974	4,750	(B.21)	100
Morin, R.B. Pointe-Claire, Que.	SSC/ASC EC	Etude des bancs de poissons anadromes et côtiers qui peuvent être touchés par le projet hydroélectrique de la baie James.	1975	6,600	(B.32)	100
Murray, R. St-Luc, Que.	CC/CAC	Production Grants/Subventions de réalisation cinématographique pour un documentaire couleur en 16mm intitulé: Les Cris d'Eastmain.	1975-76	3,735		100
Murthy, G. Dept. of Physics Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Paleomagnetic and rock magnetic investigations of anorthositis and other intrusive rocks from Labrador, Greenland and the island of Newfoundland and the study of implications of these results.	1979-80 1980-81 1981-82 1982-83 1983-84	10,000 10,980 12,078 13,700 14,522		100
Musée national d'histoire naturelle Paris, France	SSC/ASC DFE/MPE	Analyse et interpretation de donnees collectees lors de deux experiences conjointes France-Canada sur la formation des eaux oceaniques profondes dans la mer du Labrador.	1978	5,700	(B.64)	100
Naskapi Band Council of Schefferville Montreal, Que.	CC/CAC	History: The Naskapis of Quebec, 1830-1900.	1977-78	5,612		100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Newfoundland Fisherman, Food and Allied Workers Union St. John's, Nfld.	SSC/ASC DFO/MPO	Study of mechanized line fishing in Coastal Labrador.	1980	49,964	(B.89)	100
Newfoundland Fisherman, Food and Allied Workers Union St. John's, Nfld.	SSC/ASC DFO/MPO	Conduct a demonstration of random baiting and electronic jigging machines on the southern and eastern Labrador coast.	1981	51,570	(B.102)	100
Nicholson, F.H. Dept. of Geography McGill Univ.	NRCC/CNRC	Studies in the Schefferville, P.Q. area: an investigation of the problems associated with permafrost amelioration, a study of permafrost distribution, hydrological budget studies.	1974-75	4,900		100/ 57
Nicholson, F.H. Dept. of Geography McGill Univ.	NRCC/CNRC	Prediction of Permafrost Distribution for Subarctic Mining Operations.	1974-75 1975-76	26,095 30,200		100/ 57
Nicholson, F.H. Dept. of Geography McGill Univ.	NRCC/CNRC	Permafrost studies in the Schefferville area - thermal amelioration, supra permafrost groundwater, and effects of snowcover.	1975-76	2,925		100/ 57
NITAO Limitee Outremont, Que.	SSC/ASC DFE/MPE	Etude des liens entre les connaissances necessaires à la gestion du regime Chasse, Pêche et Trappage de la Convention de la Baie James et du Nord Quebecois et l'etat actuel des connaissances et donnees disponibles.	1979	2,500	(B.73)	100/ 51
Nordco Limited St. John's, Nfld.	SSC/ASC DFE/MPE	Field testing of Arctic shoreline clean-up techniques on the Labrador coast - phase I.	1979	14,920	(B.72)	100/ 54
Nordco Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Provision of salinity, temperature and depth data from four locations on the Labrador Shelf.	1979	5,000	(B.77)	100
Nordco Limited St. John's, Nfld.	SSC/ASC EC	Conduct a study of transportation and distribution requirements of the inshore fishery on the Labrador Coast.	1981	208,375	(B.102)	100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Nordco Limited St. John's, Nfld.	SSC/ASC EC	Purchase of Nordco Limited baseline study on iceberg data.	1982	4,000	(B.110)	100/ 40
Nordco Limited St. John's, Nfld.	SSC/ASC EC	Provide a report on a methodology for the derivation of ocean current from observation of iceberg data.	1983	25,755	(B.120)	100/ 53
Nordco Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Preparation of a summary document of transportation and distribution requirements of inshore fishery on the Labrador coast.	1983	8,495	(B.119)	100
Northland Associates Limited St. John's, Nfld.	SSC/ASC EC	Study to determine native waterfowl harvest in coastal Labrador.	1980	40,137	(B.93)	100
Noseworthy, R.A. St. John's, Nfld.	SSC/ACC DFO/MPO	Observation and reporting on fishing activities during an offshore crab survey of eastern Newfoundland and Labrador.	1980	5,175	(B.88)	100
O'Neill, M. Ottawa, Ont.	SSC/ASC DFO/MPO	Analysis of a Norwegian approach to community development and its potential usefulness for Newfoundland and Labrador rural communities.	1979	37,843	(B.77)	100
Occhietti, S. Dep. de Geographie Univ. du Quebec a Montreal	EMRC	Application de l'aminostratigraphie au quaternaire de l'Arctique occidental et de la region atlantique de Canada.	1983-84	7,000		100/ 34
Oceans Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Conduct a study of the movements of cod eggs and larvae - offshore Newfoundland and Labrador.	1982	40,000	(B.115)	100
Oechel, W.C. Dept. of Biology McGill Univ.	NRCC/CNRC	Mini computer with printer, 100 channel MV scanner and other attachments.	1974-75	12,000		100/ 69
Oechel, W.C. Dept. of Biology McGill Univ.	NRCC/CNRC	Factors controlling photosynthesis in arctic and subarctic bryophytes.	1974-75 1975-76 1976-77 1977-78	6,000 9,750 10,000 10,840		100/ 69
Oechel W.C. Dept. of Biology McGill Univ.	NRCC/CNRC	Plant growth chambers.	1977-78	18,000		100/ 69
Oechel, W.C. Dept. of Biology McGill Univ.	NSERCC/ CRSNGC	Factors controlling the evolution and selection of the photosynthetic response patterns in boreal plants.	1978-79	13,000		100/ 69

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Olsen, O.A. Dept. of Biology Memorial Univ. of Newfoundland	NRCC/CNRC	Floristics and plant succession in the spray zone of Churchill Falls, Labrador.	1974-75 1975-76	500 570		100
Orca Marine Geological Consultants Halifax, N.S.	SSC/ASC EMRC	Compile all geological data collected on Hudson cruise No. 83030 at the standardized format for the Labrador shelf.	1983	3,175	(B.128)	100
Orr, R.D. and Mackay, M.G.A. Fac. of Medicine Memorial Univ. of Newfoundland	HWC/SBSC	The availability and use of imported and native foods on the Labrador Coast.	1979-80 1980-81 1981-82	20,000 56,584 8,303		100
Ouellet, M. INRS-Eau Univ. du Québec à Québec	NRCC/CNRC	Aspects paléolimnologiques et sédimentologiques des lacs du Québec.	1977-78 1978-79	6,900 4,000		100
Ouellette, M. Quartaq, Que	SSC/ASC EC	Offre de services d'observation météorologique et d'entretien de la station météorologique du SEA à Quaqtaq (Qué.).	1982	63,472	(B.109)	100
Page, P. Dep. des Sciences de la terre Univ. du Québec à Montréal	NSERCC/ CRSNGC	Géochimie des milieux glacio-aquatiques actuels et anciens de l'Est du Canada.	1983-84	13,780		100/ 34
Parent, J. Univ. du Québec à Trois-Rivières	NRCC/CNRC	Travaux du groupe de recherche sur la démoustication.	1974-75	14,000		100/ 74
Payette, S. Dep. de Phytotechnie Univ. Laval	NRCC/CNRC	1) Écologie végétale et pédologie de la toundra forestière et de la toundra hudsoniennes. 2) Étude écologique des étages alpin et sub-alpin du Mont Jacques-Cartier, Parc de la Gaspésie, Québec.	1974-75 1975-76	5,000 5,705		100/ 14
Payette, S. Dep. de Phytotechnie Univ. Laval	NSERCC/ CRSNGC	Écologie de la limite des forêts au Nouveau-Québec.	1976-77 1977-78 1978-79	7,000 7,588 8,043		100/ 28
Payette, S. Dep. de Phytologie Univ. Laval	NSERCC/ CRSNGC	Écologie de la limite des forêts au Nouveau-Québec: segment baie d'Hudson baie d'Ungava.	1979-80 1980-81 1981-82	12,000 13,176 14,494		100/ 28

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Payette, S. Centre d'Études nordiques Univ. Laval	NSERCC/ CRSNGC	Ecologie de la zone hémi-arctique du Nouveau-Québec.	1980-81	15,000		100/ 14
Payette, S. Dép. de Phytologie Univ. Laval	NSERCC/ CRSNGC	Dynamique holocène des systèmes écologiques de la toundra forestière du Nord québécois.	1982-83 1983-84	27,000 28,620		100/ 28
Payette, S., Allard, M. et Dionne, J.-C. Centre d'Etudes nordiques Univ. Laval	NSERCC/ CRSNGC	Dynamique des systèmes fluviaux et lacustres du Québec nordique.	1981-82 1982-83	52,000 61,453		100/ 34
Payette, S., Filion, L. et Allard, M. Centre d'Études nordiques Univ. Laval	NSERCC/ CRSNGC	Un camion.	1983-84	21,997		100
Payette, S, et al. Centre d'Études nordiques Univ. Laval	NSERCC/ CRSNGC	Processus géomorphologiques et écologiques subarctiques et arctiques du Nord Québécois.	1983-84	13,780		100/ 34
Payre, G.M.J. Dep. de Génie chimique Univ. de Sherbrooke	NSERCC/ CRSNGC	Modelage d'un réservoir subarctique: identification des paramètres.	1980-81 1981-82 1982-83	7,500 8,250 9,529		100/ 39
Peck, G.S. Burlington, Ont.	SSC/ASC EC	Consultant and advisory services for oceanographic studies in James Bay and Hudson Bay.	1974	14,000	(B.20)	100/ 53
Peck, F. Burlington, Ont.	SSC/ASC EC	Enumeration and identification of phytoplankton from Hudson Bay.	1976	2,500	(B.34)	100/ 41
Pelletier, G. Quebec, Qué.	SSC/ASC EC	Rapports et etudes statistiques relatifs à la Convention de la Baie James et du Nord Québécois.	1979	2,565	(B.77)	100/ 43
Peters, R.H. Dept. of Biology McGill Univ.	SSC/ASC INAC/AINC	Continuation study of the prediction of effects of increased nutrient loading on Sub-Arctic lakes.	1983	38,069	(B.124)	100/ 39

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Pett Biological Services Guelph, Ont.	SSC/ASC DFO/MPO	Study of the Chesterfield Inlet and the La Grande Plume area of James Bay.	1981	8,600	(B.95)	100
Pett Biological Services Guelph, Ont.	SSC/ASC DFO/MPO	Preparation of scientific figures of La Grande physical and biological data.	1981	800	(B.96)	100
Phan, L.C. Dep. des Sciences appliquées Univ. du Québec a Chicoutimi	NSERCC/ CRSNGC	Microscope à faible grossissement et à lumière polarisée pour l'analyse de la structure des échantillons de verglas et de givre.	1978-79	8,000		100/ 5
Phan, L.C. Dep. des Sciences appliquées Univ. du Quebec a Chicoutimi	NSERCC/ CRSNGC	Système de cinématographie à haute vitesse.	1980-81	22,000		100/ 5
Phan, L.C. Dep. des Sciences appliquées Univ. du Québec à Chicoutimi	NSERCC/ CRSNGC	Granulomètre optique pour mesure du spectre dimensionnel des gouttelettes d'eau.	1981-82	33,696		100/ 5
Phan, L.C., Laforte, J.L. et McComber, P. Dep. des Sciences appliquées Univ. du Québec a Chicoutimi	NSERCC/ CRSNGC	Recherche relative au givrage des lignes de transport d'énergie.	1981-82 1982-83	37,800 30,000		100/ 5
Phan, L.C., Laporte, J.L. et McComber, P. Dep. des Sciences appliquées Univ. du Québec a Chicoutimi	NSERCC/ CRSNGC	Influence des conditions atmosphériques sur le transport d'énergie.	1982-83	30,000		100/ 5

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Phan, C.L., McComber, P. et Laforte, J.L. Dep. des Sciences appliquées Univ. du Québec à Chicoutimi	NSERCC/ CRSNGC	Recherche relative au givrage des lignes de transport d'énergie.	1981-82 1982-83 1983-84	25,100 28,991 30,730		100/ 5
Phan, L.C., McComber, P. Laforte, J.L. Dep. des Sciences appliquees Univ. du Québec à Chicoutimi	NSERCC/ CRSNGC	Soufflerie réfrigérée permettant la simulation du givre et du verglas	1982-83 1983-84	13,900 14,734		100/ 5
Phan, L.C. et al. Dep. des Sciences appliquees Univ. du Québec a Chicoutimi	NSERCC/ CRSNGC	Formation de glace (verglas et givre) sur les lignes de transmission et etudes des moyens de prévention.	1978-79 1979-80 1980-81	14,441 14,946 16,411		100/ 10
Photogravity Surveys Limited Calgary, Alta.	SSC/ASC EMRC	Survey and evaluation of gravity and bathymetry in James Bay.	1975 1976	28,550 84,214	(B.23) (B.35)	100
Photogravity Surveys Limited Calgary, Alta.	SSC/ASC EMRC	Survey and evaluation of gravity and bathymetry in the Belcher Islands area of Hudson Bay.	1977	43,565	(B.46)	100/ 33
Pinel-Alloul, B.G. Dep. des Sciences biologiques Univ. de Montréal	NRCC/CNRC	Étude du zooplancton (communauté, dynamique de population, production secondaire) des lacs et rivières du territoire de la Baie James.	1976-77	4,000		100
Pinel-Alloul, B.G. Dep. des Sciences biologiques Univ. de Montréal	NRCC/CNRC NSERCC/ CRSNGC	Étude du zooplancton (communauté dynamique de populations, production secondaire) des lacs et rivières du territoire de la Baie James et de la région de Montréal.	1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	6,000 6,360 6,583 8,000 8,80[illegible] 10,164		100
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NRCC/CNRC	1) Processes of deposition of fine clastic sediments in the ocean 2) Marine quaternary of Atlantic Canada.	1975-76 1976-77 1977-78	13,165 13,500 14,634		100/ 34

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NRCC/CNRC	2 1/2" 1800 lb piston Corer.	1975-76	5,309		100/ 34
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NRCC/CNRC	3.5 kiloherz sub-bottom profiling system ORE System 1036, transducer assembly 10 kilowatt vari.	1976-77	6,600		100/ 34
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	SSC/ASC EMRC	Feasibility study of the geomorphology and geology of Makkovik Bay, Labrador.	1977	4,949	(B.52)	100
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	EMRC	Geology of coastal bays in Labrador and Nova Scotia.	1978-79	13,500		100
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Quaternary history and sedimentology of the eastern Canadian continental margin.	1978-79 1979-80 1980-81	23,500 24,323 26,707		100/ 34
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	EMRC	Geological mapping and transportation processes, coastal Nova Scotia and Labrador.	1979-80	14,000		100
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	EMRC	Geological mapping and interpretation of pro-glacial sediments, Frobisher Bay and elsewhere in eastern Canada.	1981-82	10,000		100/ 34
Piper, D.J.W. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Deep water sedimentology and quaternary history, offshore Eastern Canada.	1981-82	30,000		100/ 34
Piper, D.J.W. et al. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Late quaternary studies of the eastern Canadian coastline, shelf and continental margin.	1977-78 1978-79	44,900 36,040		100/ 34
Piper, D.J.W. et al. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Quaternary paleo-oceanography, eastern Canadian continental margin.	1980-81	69,000		100/ 34
Plumet, P. et al. Univ. du Québec à Montreal et Univ. de Montreal	CC/CAC	Types préhistoriques d'habitat en Ungava, des points de vue archéologique, ethnohistorique, paléogéographique et paléoécologique.	1975-76 1976-77 1977-78	127,732 141,457 130,021		100/ 3

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Plumet, P., et al. Univ. du Québec à Montréal et Univ. de Montréal	SSHRCC/ CRSHC	Les modes d'établissement préhistoriques en Ungava	1978-79 1979-80 1980-81	163,101 176,371 25,000		100/ 3
Pootoolik, M. Koartak, Que.	SSC/ASC DFE/MPE	Weather observing and reporting services and the maintenance of Atmospheric Environment Services weather station located at Koartak, Que.	1977	52,700	(B.49)	100
Pootoolik, M. Koartak, Que.	SSC/ASC DFE/MPE	Provision of weather observing and reporting services and the maintenance of Atmospheric Environment Service's weather station located at Koartak, Quebec.	1979	68,000	(B.73)	100
Post-glacial history and Sea level changes in Hudson Bay Poste-de-la-Baleine - Juin 1979	NSERCC/ CRSNGC	Conference Grants/Subventions pour conférences.	1979-80	5,000		100/ 34
Power, G. Dep. de Biologie Univ. Laval	SSC/ASC EC	Ivestigation of the anadromous and coastal fish stocks which might be affected by the James Bay hydro-electric project.	1975	7,500	(B.24)	100
Power, G. Centre d'Etudes nordiques Univ. Laval	NRCC/CNRC	Ecology of freshwater and anadromous fishes of Richmond Gulf.	1974-75 1975-76 1976-77	6,000 6,845 7,020		100
Power, G. Centre d'Etudes nordiques Univ. Laval	NSERCC/ CRSNGC	Studies of freshwater and anadromous fish stocks in Northern Quebec and Labrador.	1977-78 1978-79 1979-80	10,000 10,600 10,971		100
Premier colloque sur l'action geologique des glaces flottantes Quebec	NRCC/CNRC	Conference Grants/Subventions pour conférences.	1974	4,050		100

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Project Planning Consultants Ltd. Halifax, N.S.	SSC/ASC TC	Evaluation of fire protection system at the Airport, Goose Bay, Labrador.	1980	4,623	(B.85)	100
R.H. Loucks Oceanology Limited Halifax, N.S.	SSC/ASC DFE/MPE	Identify workable mechanisms for transporting nutrients to the surface layers of the Labrador Shelf.	1978	3,000	(B.61)	100
R.H. Loucks Oceanology Limited Halifax, N.S.	SSC/ASC DFE/MPE	Analysis of Labrador shelf nutrients.	1979	2,500	(B.70)	100
Recherches Amerindiennes au Quebec	CC/CAC SSHRCC/ CRSHC	Aid to scholarly/Aide à l'édition savante.	1974-75 1975-76 1980-81 1981-82 1982-83 1983-84	5,145 5,145 5,750 6,225 6,591 7,483		100/ 52
Richard, P.J.H. Dep. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Paléobiogéographie post-Wisconsinienne du Québec.	1979-80 1980-81 1981-82 1982-83 1983-84	12,000 13,176 14,495 28,000 29,680		100/ 69
Richard, P.J.H., Gangloff, P. et Gray, J.T. Dep. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Laboratoire de Palynologie de l'Université de Montréal.	1983-84	42,400		100/ 69
Rigler, F.H. Dept. of Zoology Univ. of Toronto	EC	Development of an empirical model to predict phosphorus loading in shield lakes.	1974-75 1975-76 1976-77	5,000 8,300 7,000		100/ 39
Rigler, F.H. Dept. of Biology McGill Univ.	INAC/AINC	Prediction effect of increased phosphorous loading on sub-arctic lakes.	1976-77	32,523		100/ 39
Rigler, F.H. Dept. of Biology McGill Univ.	SSC/ASC INAC/AINC	Prediction of effect of increased phosphorus loading on sub-Arctic lakes.	1977	78,161	(B.51)	100/ 39

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Rigler, F.H. Dept. of Biology McGill Univ.	SSC/ASC INAC/AINC	Study to predict the effect of increased phosphorus loading on sub-Arctic lakes.	1978	89,922	(B.62)	100/ 39
Rigler, F.H. Dept. of Biology McGill Univ.	SSC/ASC INAC/AINC	Analyse the prediction of the effect of increased phosphorus loading on Sub-Arctic lakes.	1979	104,724	(B.73)	100/ 39
Rigler, F.H. Dept. of Biology McGill Univ.	SSC/ASC INAC/AINC	Study the prediction of the effect of increased phosphorus loading on Sub-Arctic lakes.	1980 1981	122,344 120,000	(B.85) (B.98)	100/ 39
Rigler, F.H. Dept. of Biology McGill Univ.	INAC/AINC	Prediction of effect of increased phosphorus loading on sub-arctic lakes.	1982	89,466		100/ 39
Ritchie, B. Nain, Labrador, Nfld.	CC/CAC	Film with drawings based on themes of a drum song and a dog sled trip to be shown at the Newfoundland Sound Symposium in July 1983.	1983-84	7,843		100
Rivers, C.J.S. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Investigation of metamorphism and tectonism in the Grenville province of western Labrador.	1981-82	9,000		100
Rivers, C.J.S. Dept. of Geology Memorial Univ. of Newfoundland	EMRC	Geological and geochronological investigations in the Grenville Front region, coast of Labrador.	1982-83 1983-84	8,000 8,000		100
Rivers, C.J.S. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Metamorphic and structural investigation in the Grenville Province, Labrador and Slave Province, N.W.T.	1982-83	10,000		100/ 33
Rivers, C.J.S. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Research polarizing microscope.	1982-83	16,690		100/ 33
Rivers, C.J.S. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Metamorphic and structural studies in the Grenville, Slave and Churchill provinces.	1983-84	18,550		100/ 33

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Robitaille, B. Centre d'Études nordiques Univ. Laval	INAC/AINC	Research of the Eskimo population in Northern Quebec and the N.W.T. before 1610.	1978-79	9,194		100 3
Robitaille, B. Sillery, Qué.	SSC/ASC EC	Service en géographie nordique.	1978 1979 1980	2,000 2,000 2,000	(B.66) (B.77) (B.84)	100
Robitaille, B. Centre d'Études nordiques Univ. Laval	INAC/AINC	Le peuplement esquimau (Inuit) le long de la frontière Québec-Territoires du Nord-Ouest.	1980-81	12,000		100/ 3
Robitaille, N. Dep. de Démographie Univ. de Montréal	SSC/ASC EC	Études démographiques sur le territoire de la Baie James et du Nord québécois.	1980	5,185	(B.91)	100
Robitaille, N. Dep. de Démographie Univ. de Montréal	SSHRCC/ CRSHC	Colloque international sur les questions démographiques dans la société nordique.	1983-84			100/ 12
Robitaille, N. et Bourbeau, R. Dep. de Démographie Univ. de Montréal	SSHRCC/ CRSHC	Registre de la population des Inuit du Nouveau-Québec.	1982-83 1983-84	9,500 12,717		100/ 12
Roche et Associés Ste-Foy, Qué.	SSC/ASC DFO/MPO	Étude de possibilités de développement de la pêche maritime dans le nord québécois.	1982	24,495	(B.112)	100
Rogerson, R.J. Dept. of Geography Memorial Univ. of Newfoundland	EMRC	Geomorphological research in the Porcupine Strand area, southern Labrador.	1974-75	3,300		100
Rogerson, R.J. Dept. of Geography Memorial Univ. of Newfoundland	EMRC	Geomorphological research between the Backway and Sandwich Bay, Southern Labrador.	1975-76	3,800		100
Rogerson, R.J. Dept. of Geography Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Temperate glacier sedimentation.	1978-79 1979-80	4,900 7,000		100/ 35

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Rogerson, R.J. Dept of Geography Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Cirque glaciers erosion and ice marginal moraines.	1980-81	8,000	100/ 35
Rogerson, R.J. Dept. of Geography Memorial Univ. of Newfoundland	EC	Baseline data for mass balance of glaciers.	1981-82	2,000	100/ 35
Rogerson, R.J. Dept. of Geography Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Cirque glaciers in Northern Labrador.	1981-82 1982-83 1983-84	6,000 7,000 7,420	100/ 35
Rogerson, R.J. Dept. of Earth Sciences Memorial Univ. of Newfoundland	EMRC	Glacial geology of the Selamiut Range, Torngat Mountains, Labrador.	1983-84	8,500	100
Rouse, W.R. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Digital recorder, temperature integrator, wind sensor translator and associated accessories.	1982-83	22,865	100/ 39
Rouse, W.R. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Energy and water balance studies in the low Arctic. Climatic impact of Hudson Bay ice on coastal tundra.	1982-83	6,500	100/ 39
Rouse, W.R. Dept. of Geography McMaster Univ.	NSERCC/ CRSNGC	Climatic impact of Hudson Bay on coastal tundra - energy and water balance studies in the low Arctic.	1983-84	5,300	100/ 39
Roy, A.W. Nat Indian Brotherhood Ottawa, Ont.	HWC/SBSC	Dietary Component Survey of an Indian Community in N.W. Quebec who have been dependent on fish (food) with a high Mercury content.	1978-79	2,340	100/ 47
Roy, A.W. Nat Indian Brotherhood Ottawa, Ont.	HWC/SBSC	Effect of Mercury Pollution on the Human Body, Livelihood and Way of Life of the Indian people.	1978-79	20,275	100/ 47
Roy, A.W. Nat Indian Brotherhood Ottawa, Ont.	HWC/SBSC	Sediment Survey for Mercury content in Rivers and lakes of N.W. Quebec in local areas of Indian Reserves in that Area.	1978-79	2,000	100/ 47

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Roy, E. Quebec, Que.	SSC/ASC DFE/MPE	Analyse des réclamations des autochtones telles qu'énoncées par les voies judiciaries au Québec entre 1970 et 1977.	1978	1,700	(B.59)	100/ 43
Royal Ontario Museum Toronto, Ont.	SSC/ASC EMRC	Determination of U-Pb zircon geochronological ages of Labrador and insular Newfoundland rock samples.	1983	32,000	(B.129)	100
Russell, W.E. Dept. of Physics Memorial Univ. of Newfoundland	NRCC/CNRC NSERCC/ CRSNGC	An experimental investigation of the response of icebergs to rapid changes in the current field.	1976-77 1977-78 1978-79	5,000 5,420 5,745		100/ 40
Ryall, P. Dept. of Geology Dalhousie Univ.	EMRC	Preparation of report and data base of ice scour marks on Saglek Bank.	1983-84	5,500		100/ 40
Saladin d'Anglure, B. Dép. d'Anthropologie Univ. Laval	SSC/ASC CD/MC	Recherche sur la transmission du savoir et télécommunication chez les Inuits.	1974	15,000	(B.15)	100/ 7
Saladin d'Anglure, B. Dep. d'Anthropologie Univ. Laval	CC/CAC	Anthropologie: Recherche sur le symbolisme inuit (esquimau).	1974-75	38,874		100/ 11
Saladin d'Anglure, B. Dep. d'Anthropologie Univ. Laval	INAC/AINC	Problems of native peoples adapting to modern work environments.	1974-75	5,054		100/ 16
Saladin d'Anglure, B. Dep. d'Anthropologie Univ. Laval	CD/MC	Transmission du savoir & télécommunication chez les Inuit	1974-75	15,000		100/ 11
Saladin d'Anglure, B. Dep. d'Anthropologie Univ. Laval	CC/CAC	Ethnographie des esquimaux du Nouveau-Québec.	1975-76	1,145		100/ 11
Salisbury, R.F. Dept. of Anthropology McGill Univ.	SSC/ASC CD/MC	Study to analyze the communications structure of a regional centre in Fort George, Quebec.	1975	10,998	(B.32)	100
Salisbury, R.F. Dept. of Anthropology McGill Univ.	CC/CAC	Social change and development among the James Bay Cree resulting from the 1975 Agreement.	1979-80	31,419		100/ 43
Salisbury, R.F. Dept. of Anthropology McGill Univ.	SSHRCC/ CRSHC	Decisions and development decentralisation and James Bay.	1981-82	10,312		100/ 43

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNEE	AMOUNT/ $ MONTANT		NO./ NO
Schenk, P.E. et al. Dept. of Geology Dalhousie Univ.	NSERCC/ CRSNGC	Quaternary paleo-oceanography, eastern Canadian Continental Margin.	1981-82 1982-83	74,638 83,683		100/ 34
Schroeder, J., Bouchard, M. et Occhietti, S. Dep. de Géographie Univ. du Québec à Montréal	NSERCC/ CRSNGC	Études des paléosurfaces du Québec et des régions périphériques.	1982-83	25,000		100/ 34
Schwarz, A. Dep. de Sociologie Univ. Laval	INAC/AINC	To complete a study of co-operatives in Northern Quebec.	1975-76	6,400		100/ 10
Seashore Engineering & Associates Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Project engineering of modifications to infrastructure at harbours in coastal Labrador.	1982 1983	130,000 100,000	(B.112) (B.122)	100
Segovia, J. Dept. of Community Medicine Memorial Univ. of Newfoundland	HWC/SBSC	Health status indicators for Nfld and Labrador.	1977-78 1978-79	8,806 687		100
Séguin, M.K. Dep. de Géologie Univ. Laval	NDD/MDN DRB/CRD	Etude du permafrost dans la région de Schefferville.	1974-75	6,500		100
Séguin, M.K. Dep. de Géologie Univ. Laval	EMRC	Paléomagnétisme des roches volcaniques et intrusifs basiques de la fosse du Labrador.	1974-75	4,000		100
Séguin, M.K. Dep. de Géologie Univ. Laval	NRCC/CNRC	Étude paléomagnétique des roches de la fosse du Labrador, d'un segment des Appalaches et de l'Abitibi.	1974-75 1975-76 1976-77	8,900 10,155 10,413		100
Séguin, M.K. Dep. de Géologie Univ. Laval	NRCC/CNRC	Magnétometre a précession type 'spinner' avec programmateur capable de mesurer des intensités de l'ordre de 10-0 a 10-7 Gauss/cm3.	1975-76	25,000		100
Séguin, M.K. Dep. de Géologie Univ. Laval	EMRC	Paléomagnétisme des roches intrusives et effusives basiques de la fosse du Labrador.	1975-76	4,250		100

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Seguin, M.K. Dep. de Géologie Univ. de Laval	NDD/MDN DRB/CRD	Permafrost discontinu dans le Nord du Québec.	1975-76	5,000		100/ 57
Seguin, M.K. Dep. de Géologie Univ. Laval	NSERCC/ CRSNGC	Désaimanteur par champ alternatif avec unité à bascule et autres accessoires.	1980-81	11,747		100
Seguin, M.K. Dep. de Géologie Univ. Laval	NSERCC/ CRSNGC	Paleomagnetic studies of Archean Greenstone Belts of Northern Quebec.	1980-81	8,800		100
Serodes, J.B. et Moreau, G. Dep. de Genie civil Univ. Laval	NSERCC/ CRSNGC	Impacts ecologiques sur les écosystemes aquatiques en milieu nordique.	1981-82 1982-83	15,000 15,000		100/ 19
Shannahan, J. Southern Shore, Nfld.	SSC/ASC DFO/MPO	Crab sampling activities during an offshore commercial crab survey in eastern Newfoundland and Labrador waters.	1980	11,790	(B.88)	100
Shawmont Newfoundland Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Gather and assemble all water quality data available for all streams, rivers and lakes in Newfoundland and Labrador.	1981	25,903	(B.96)	100
Simard, J.-J., Frechette, P. et Robitaille, P. Univ. Laval	SSHRCC/ CRSHC	Économie politique au Nouveau-Québec inuit 1945-1983.	1983-84	64,738		100/ 13
Singh, B. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	L'hydrometéorologie de la région de Radisson, du complexe La Grande - 2, de la Baie James.	1979-80	6,000		100
Singh, B. Dep. de Geographie Univ. de Montreal	EC	L'occurrence et la distribution spatiale et temporelle de la pluie (ou neige) acide provenants des transferts atmosphériques dans le moyen Nord du Québec.	1979-80 1980-81	5,000 5,000		100/ 1
Singh, B. Dep. de Geographie Univ. de Montreal	NSERCC/ CRSNGC	Investigation de quelques aspects de l'hydrometéorologie dans les alentours du barrage LG-2, territoire de la Baie James, Québec.	1980-81	8,500		100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Singh, B. Dep. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Études à long terme de quelques aspects de l'hydrométéorologie et la microclimatologie de la région de la Baie James, Québec.	1981-82	9,500		100/ 5
Singh, B. Dep. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	Climatological impact studies pertaining to the creation of large reservoirs, James Bay, Quebec.	1982-83	10,000		100/ 19
Singh, B. Dep. de Géographie Univ. de Montréal	NSERCC/ CRSNGC	The ground thermal regime in the Hudson-James-Bay area, Nouveau-Québec, as related to snow cover and energy exchanges at the surface.	1983-84	8,480		100/ 5
Singh, B., Gray, J.T. et Ganyloff, P. Dep. de Géographie Univ. du Montréal	NSERCC/ CRSNGC	Acquisition of a reliable and applicable data retrieval system.	1982-83	31,665		100/ 19
Slatt, R.N. Dept. of Geology Memorial Univ. of Newfoundland	EMRC	Burial diagenesis and origin of clay minerals in Mesozoic-Tertiary strata on the Labrador-Newfoundland continental shelf.	1976-77	8,400		100
Smith, L.R. Dept. of Linguistics Memorial Univ. of Newfoundland	SSHRCC/ SHC	Extended analysis in Inuktitut syntax.	1980-81	23,062		100/ 11
Smith, L.R. Dept. of Linguistics Memorial Univ. of Newfoundland	SSHRCC/ CRSHC	Labrador Inuttut syntax.	1979-80	17,928		100/ 11
Smith, L.R. Dept. of Linguistics Memorial Univ. of Newfoundland	CC/CAC	The grammar of Labrador Inuttut affixation.	1975-76	7,952		100/ 11
Smith, P.C. Dept. of Biology Acadia Univ.	SSC/ASC EC	Bird banding in the James Bay area.	1976	8,586	(B.40)	100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Smith, T.E. Dept. of Geology Univ. of Windsor	NSERCC/ CRSNGC	Archean magmatism and tectonics: a geochemical study of the evolution of granitic rocks in the Superior Province and subsidiary projects	1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83	6,000 7,150 7,579 7,844 12,500 13,750 15,881		100
Smith, V.H. Dept. of Biology McGill Univ.	INAC/AINC	Prediction of the effects of increased phosphorous loading in subarctic lakes.	1983-84	38,000		100/ 39
Sodhi, D.S. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NRCC/CNRC	1) A study of ridge formation on the ice sheet of Lake Melville using finite element method. 2) Random response of submerged sperical caps.	1974-75	5,000		100
Spencer Consultants Limited St. John's, Nfld.	SSC/ASC DFO/MPO	Investigation of fishery problems in the great northern peninsula of Newfoundland and Labrador (north of 50° latitude) to Saglet, Labrador.	1983	22,125	(B.126)	100
Stager, J.K. Fac. of Arts Univ. of British Columbia	INAC/AINC	Cooperative Development Program ("Evaluation Study of the Federated Cooperatives in Nouveau Quebec and the N.W.T. after the Cooperative Development Program").	1981-82	60,000		100/ 10
Strong, D.F. Dept. of Geology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Crustal and metallogenic studies of regions bordering the North Atlantic	1981-82 1982-83 1983-84	48,000 55,440 58,776		100/ 33
Symposium on Scientific Studies on Hudson/ James Bay Univ. of Guelph April 1981	NSERCC/ CRSNGC	Conference Grants/Subventions pour conferences.	1981-82	3,386		100/ 52
Tagramiut Nipingat Incorporated Sugluk, Que.	SSC/ASC INAC/AINC	Development of a system of communications to integrate the Inuit culture in northern Quebec using Hermes and Anik "A" satellites (Project Naalakvik).	1978	247,703	(B.64)	100/ 7
Tagramiut Nipingat Incorporated Sugluk, Que.	SSC/ASC INAC/AINC	Perform experiments with the use of satellite facilities to introduce television programming, testing, assessment and production in Inuit communities in Northern Quebec.	1979	918,000	(B.76)	100/ 7

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Taqramiut Nipingat Incorporated Salluit, Que.	SSC/ASC CD/MC	Development of a telidon based communication model for application in Northern communities.	1982	55,025	(B.117)	100/ 7
Taqramiut Nipingat Incorporated Salluit, Que.	CC/CAC	Scripting and production of two short TV dramas in cooperation with the Inugait Theatre Company.	1983-84	15,050		100
Taylor, L. Memorial Univ. of Newfoundland	CC/CAC	Psychology: The effects of Sesame Street on the cognitive and achievement patterns of children in four isolated communities in southern Labrador.	1975-76	12,200		100/ 11
Terasmae, J. Dept. of Geological Sciences Brock Univ.	NRCC/CNRC	Quaternary paleoecology, geochronology, and climatic changes in eastern and northeastern Canada.	1975-76 1976-77 1977-78	14,625 15,000 16,260		100/ 34
Terraquest Surveys Limited Toronto, Ont.	SSC/ASC EMRC	Inspection and updating of the magnetic station network in parts of Manitoba, Ontario, Quebec, Newfoundland and the Northwest Territories.	1977	49,605	(B.52)	100/ 33
Terra Surveys Limited Ottawa, Ontario	SSC/ASC EMRC	Survey and evolution of gravity and bathymetry in the Belcher Islands area of Hudson Bay.	1978	41,980	(B.59)	100/ 53
Tessier, C. Dep. de Chimie - biologie Univ. du Quebec à Trois-Rivières	NSERCC/ CRSNGC	Dynamique des milieux riverains.	1982-83	9,000		100/ 6
Tessier, C. Dep. de Chimie - biologie Univ. du Quebec à Trois-Rivières	NSERCC/ CRSNGC	Dynamisme des milieux riverains.	1983-84	7,420		100/ 6
Theatre Newfoundland and Labrador Corner Brook, Nfld.	CC/CAC	Grants to theatre companies and organization/ Compagnies et autres societès (subventions).	1983-84	5,000		100/ 11
Thibodeau, G.B. Ville de Gagnon, Qué.	SSC/ASC	Services de transmission d'observations météorologiques et d'entretien de la station météorologique de Gagnon, Québec.	1979	142,430	(B.80)	100

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Torngat Fish Producers Cooperative Society Limited Labrador, Nfld.	SSC/ASC DFO/MPO	Monitor Arctic char in Hebron Fiord, Labrador.	1981	49,998	(B.101)	100
Torngat Fish Producers Cooperative Society Limited Labrador, Nfld.	SSC/ASC DFO/MPO	Monitor Arctic Char in Ikarut River in northern Labrador.	1982	44,850	(B.112)	100
Torngat Fish Producers Cooperative Society Limited Labrador, Nfld.	SSC/ASC DFO/MPO	Monitor Arctic char in Ikarut River, Hebron Fiord-Northern Labrador.	1983	44,850	(B.125)	100
Trenhaile, A.S. Dept. of Geography Univ. of Windsor	NSERCC/ CRSNGC	Weathering and shore platform development in in eastern Canada.	1978-79 1979-80 1980-81	6,000 6,210 6,819		100
Trimm, A. St. John's, Nfld.	SSC/ASC DFO/MPO	Conduct longlining trials and demonstrations in Southern Labrador waters and the Northern Gulf of St. Lawrence.	1981	48,000	(B.101)	100
Trudel, F. Univ. Laval	SSHRCC/ CRSHC	Histoire des Inuit du Québec nordique (1700-1950)	1982-83	28,292		100/ 37
Tuck, J.A. Dept. of Anthropology Memorial Univ. of Newfoundland	CC/CAC	Archaeological investigation in the Strait of Belle Isle area, Labrador.	1974-75	4,946		100
Tuck, J.A. Dept. of Anthropology Memorial Univ. of Newfoundland	CC/CAC	A survey for 16th century Basque remains in the Strait of Belle Isle, Labrador.	1977-78	3,381		100
Tuck, J.A., Pocius, G. and Pastore, R. Dept. of Anthropology Memorial Univ. of Newfoundland	SSHRCC/ CRSHC	A sixteenth century Basque whaling station in southern Labrador.	1980-81 1981-82	59,077 55,187		100

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Tukkiapil, C. Koartak, Qué.	SSC/ASC EC	Collaboration in the operation and evaluation of trial and remote camp radio system for use by Inuit people at Koartak, Quebec.	1979	2,873	(B.74)	100
Univ. de Montréal	SSHRCC/ CRSHC	Colloque II sur les populations nordiques (Montréal).	1979-80	1,700		100/ 12
Univ. de Montréal	SSHRCC/ CRSHC	Actes du deuxième colloque sur les populations nordiques/Proceedings of the Northern Population Workshop II (Montreal, 1979).	1981-82	-		100/ 12
Univ. de Montréal	SSHRCC/ CRSHC	Northern Population Workshop IV/4e colloque sur les populations nordiques.	1983-84	7,000		100/ 12
Univ. de Montréal	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	8,000		100/ 52
			1975-76	12,000		
			1976-77	12,500		
			1977-78	13,000		
			1978-79	13,000		
			1979-80	10,000		
			1980-81	15,000		
			1981-82	13,000		
			1982-83	21,500		
			1983-84	21,500		
Univ. du Québec a Chicoutimi	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75	15,000		100/ 52
			1975-76	17,000		
			1976-77	18,000		
			1977-78	20,000		
			1978-79	22,000		
			1979-80	25,000		
			1980-81	23,000		
			1981-82	21,000		
			1982-83	28,000		
			1983-84	23,700		
Univ. du Québec a Chicoutimi	SSHRCC/ CRSHC	Axes de développement: Moyen Nord et interventions régionales.	1983-84	25,000		100

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Univ. du Québec à Trois-Rivières	INAC/AINC	Northern Scientific Training Program Programme de formation scientifique dans le Nord.	1981-82 1982-83 1983-84	10,500 16,000 19,000		100/ 52
Univ. Laval	INAC/AINC	Northern Scientific Training Program/ Programme de formation scientifique dans le Nord.	1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84	37,000 38,500 39,500 40,000 37,000 32,000 38,000 44,500 50,500 57,000		100/ 52
Venkatesan, D. Dept. of Physics Univ. of Calgary	NRCC/CNRC	IMS - Investigation of bremstrahlung x-rays with emphasis on microbursts and special attention to conjugate studies of auroral phenomena, through balloon launches at Roverval, Quebec.	1976-77 1977-78	8,000 14,090		100/ 33
Verreault, R. Dép. des Sciences pures Univ. du Québec à Chicoutimi	NRCC/CNRC	Stations météorologiques du moyen-Nord.	1975-76 1976-77 1977-78	4,875 5,000 2,000		100
Ville de Gagnon Gagnon, Qué.	SSC/ASC DFE/MPE	Services de transmission d'observations météorologiques et d'entretien de la station météorologique de Gagnon, Québec.	1977	120,000	(B.56)	100
Vollant, R. Reserve Maliotenam Sept-Iles, Qué.	CC/CAC	Pour réaliser un documentaire vidéo sur les occupations traditionnelles des Indiens montagnais.	1975-76	9,000		100
Whittick, A. Dept. of Biology Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Ecology of benthic marine plants in Newfoundland and Labrador.	1978-79 1979-80 1980-81	7,000 7,245 7,955		100
Whittick, J. Ocean Engineering Information Centre Memorial Univ. of Newfoundland	SSC/ASC EC	Feasibility study on the management of sea ice and iceberg information in Canada.	1981	23,035	(B.94)	100/ 40

NAME/ NOM	ORGANIZATION/ ORGANISME	PROJECT/ PROJET	YEAR/ ANNÉE	AMOUNT/ $ MONTANT		NO./ NO
Wilkinson, P.F. Montréal, Qué.	SSC/ASC DFE/MPE	Étude des liens entre les connaissances nécessaires à la gestion du Régime de Chasse, Pêche et Trappage de la Convention de la Baie James et du Nord Québécois et la Convention du Nord-Est Québécois et l'état des connaissances et données disponibles (Partie Naskapi).	1979	1,500	(B.73)	100
Wilkinson, P.F. Centre for Northern Studies and Research McGill Univ.	SSC/ASC EC	Study of, and preparation of a glossary on, terms and concepts peculiar of native populations.	1981	8,000	(B.95)	100/ 11
Williams, D.M. Dept. of Otolaryngology Queen's Univ. at Kingston	ACF	To support a research program in the western James Bay area to provide hearing aid service and rehabilitation for the Inuit	1981-82	9,980		100
Wilson, C.V. Centre d'Études nordiques Univ. Laval	EC	Eastern Hudson Bay: energy exchange studies at Poste-de-la-Baleine (Great Whale), Québec.	1974-75	6,000		100
Wilson, C.V. Ottawa, Ont.	SSC/ASC DFE/MPE	Preparation and editing of a publication on The Summer Season Along the East Coast of Hudson's Bay during the nineteenth century; a sample study of small scale historical climatology based on the Hudson's Bay Company and Royal Society Archives.	1977	21,120	(B.52)	100
Wilson, C.V. Ottawa, Ont.	SSC/ASC EC	Preparation of a report on the summer climate of the east coast of Hudson's Bay 1814-1821.	1981	13,100	(B.105)	100
Wilson, C.V. Ottawa, Ont.	SSC/ASC EC	Report on the east coast of Hudson Bay: Climatic indices for the summer seasons 1800 - 1900.	1983	15,350	(B.127)	100/ 5
Wilson, N.W. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NRCC/CNRC	Heat, mass and momentum transfer during the melting of icebergs in sea water.	1975-76 1976-77 1977-78	6,340 7,000 6,500		100/ 40

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Wilson, N.W. Fac. of Engineering and Applied Sciences Memorial Univ. of Newfoundland	NSERCC/ CRSNGC	Melting of ice in saline water.	1978-79 1979-80 1980-81	7,500 7,763 11,214		100/ 40
Wilson, N.W. Dept. of Mechanical Engineering Univ. of Windsor	NSERCC/ CRSNGC	Melting of icebergs in water.	1981-82	9,000		100/ 40
Wilson, R.G. Dept. of Geography McGill Univ.	NRCC/CNRC	Micrometeorological studies of snowmelt and evaporation in a sub-artic environment.	1974-75 1975-76	6,200 5,850		100/ 62
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	SSC/ASC NDD/MDN	Continuation of a research study of vehicle mobility and trafficability on snow-covered surfaces.	1974	11,932	(B.16)	100/ 67
Yong, R.N. Dept. of Civil Engineering and Applied Mechanics McGill Univ.	SSC/ASC EC	Study of the feasibility of a multiped propulsion system for an air-cushion hybrid vehicle.	1975	40,490	(B.25)	100/ 67
Yong, R.N. Soil Mechanics Research Laboratory McGill Univ.	SSC/ASC NDD/MDN	Performance evaluation and prediction of vehicle tracks on soft terrain.	1976	49,993	(B.42)	100/ 67
Yong, R.N. Geotechnical Research Centre McGill Univ.	SSC/ASC NDD/MDN	Off-road performance evaluation and prediction of wheeled vehicles.	1977	71,188	(B.52)	100/ 67